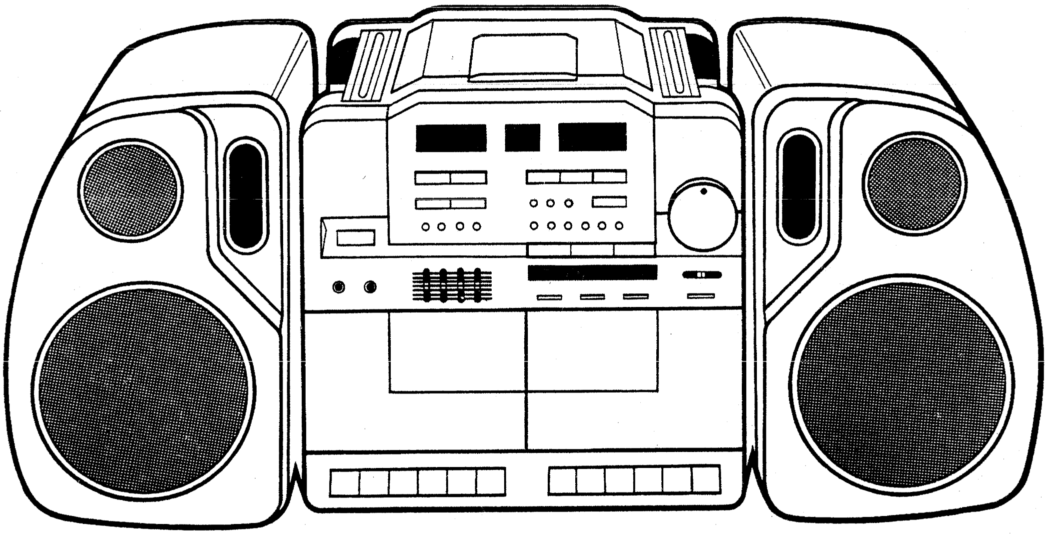
V05709

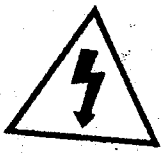
ACD-4250

CD PLAYER STEREO RADIO DOUBLE CASSETTE RECORDER



SERVICE MANUAL

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowheat symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamaltion point within an equilateral triangle is intended to alert the user to the presence of important operting and maintenance (servicing) instructions in the literature accompanying the appliance.

The space below is provided to record the Serial Number of this unit.
The Serial Number can be inside the battery compartment.

Model No. ______________________________

Serial No. ______________________________

Retain this information for future reference.

CAUTION: THIS CD STEREO RADIO CASSETTE RECORDER EMPLOYS LASER SYSTEM. SO TO USE THIS MODEL PROPERLY, READ THIS OWNER'S MANUAL CAREFULLY AND KEEP THIS FOR YOUR FUTURE REFERENCE.

1. SPECIFICATION

Cassette Dack

Cassette tape used : Normal: C-30 ~ C-90
Tape speed : 4.8 cm/sec.
Track system : Four-track two-channel stereo
Recording system : AC bias
Erasing system : Magnet erasing

Compact Disc Player

Type : Compact disc player with optical pickup
Quantization : 16-bit linear
Channels : Two channels (stereo)
Frequency response : 20 Hz to 18 KHz
Total harmonic distortion : 0.15% (1 KHz)
Wow and flutter : Below measurable limit
Pickup : Semiconductor laser pickup

Tuner

Receiving frequency: FM : 87.5–108 MHz
MW : 530–1720 KHz (America)
531–1602 KHz (Europe)
LW : 153–281 KHz
SW_1 : 2.3–6.2 MHz
SW_2 : 7.1–21.85 MHz

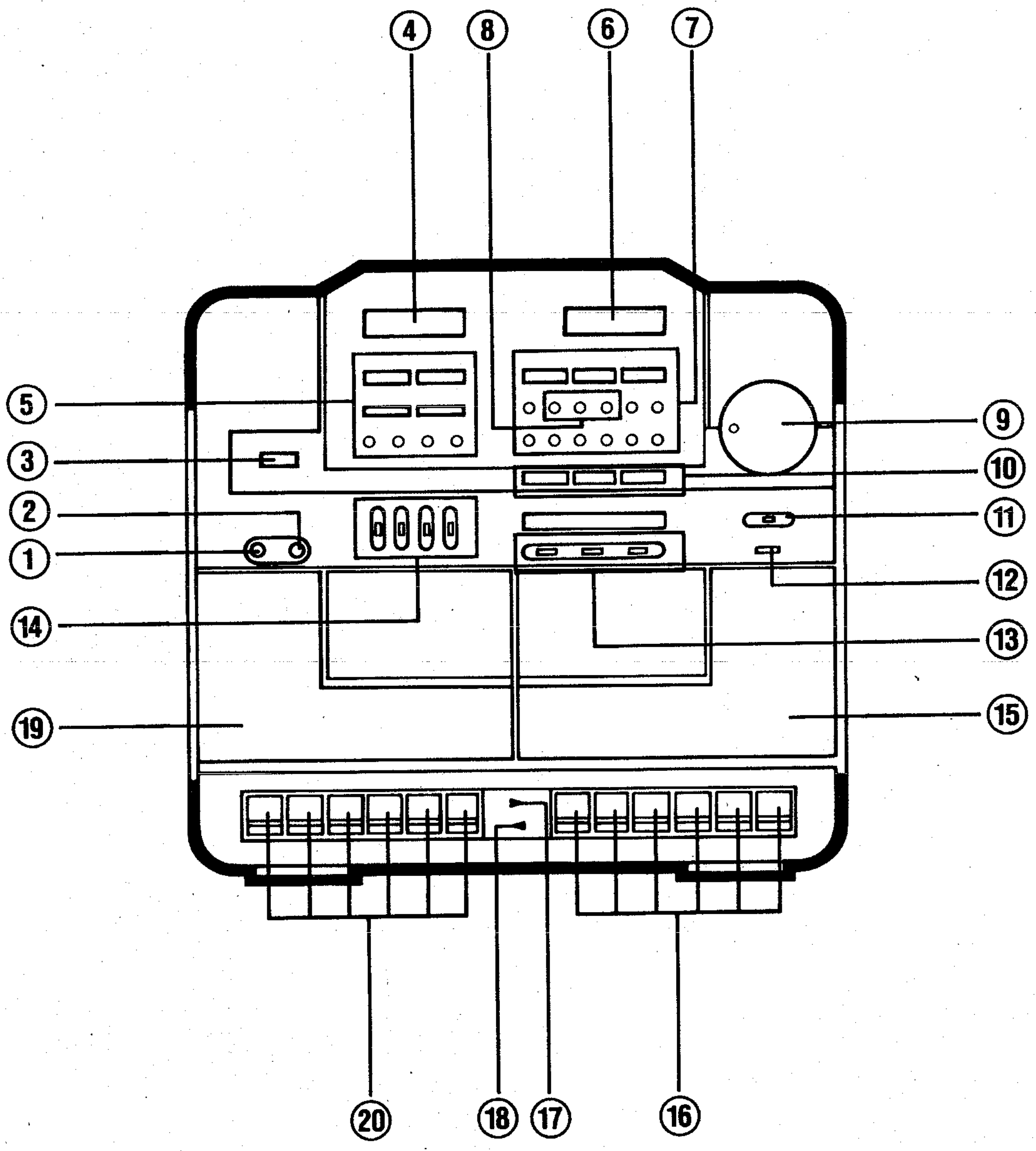
Intermediate frequency : FM : 10.7 MHz
AM : 455 KHz
ANT : LW, MW: Ferrite-core antenna
FM, SW: Telescopic antenna

General

Speakers : 5 inch × 2, piezzo × 2
Terminals : PHONES jack × 1
MIC jack × 1
CD OUT jack × 1,
SPK OUT jack × 1
Power supply : AC 120V/60Hz (America)
DC 12V IEC R20 ("D" cell) × 8
Power consumption : 25W
Dimensions (W × H × D) : 504 × 249 × 227 mm
Weight : 5.7kg (without batteries)
Power Supply Option : 100V 50/60Hz (Japan)
240V 50Hz (Australia)
110/220V 60/50Hz (S. America)
220V 50Hz
230V 50Hz (Europe)

CONTROL FUNCTIONS

Front View


④
⑧
⑥
⑦
⑤
③
②
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⑭
⑲
⑨
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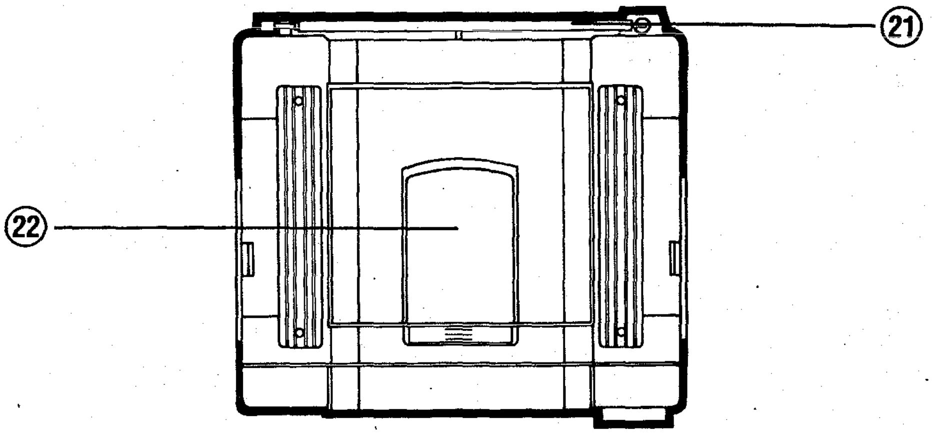
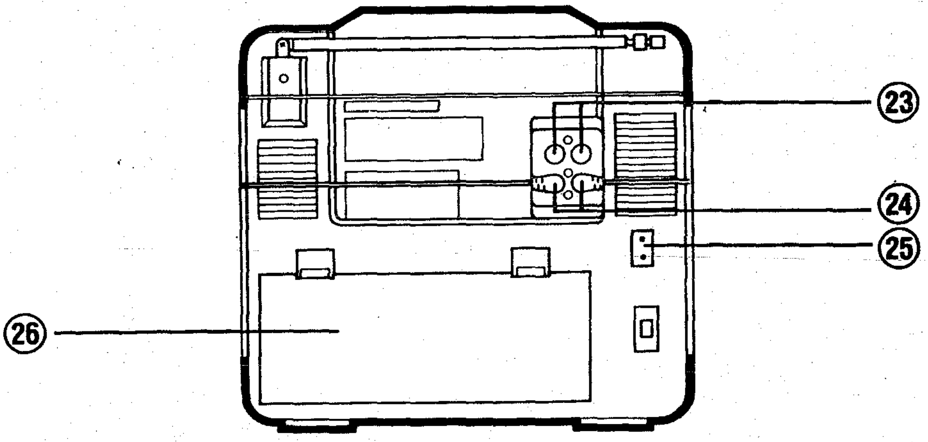
⑯

Top View



Back View

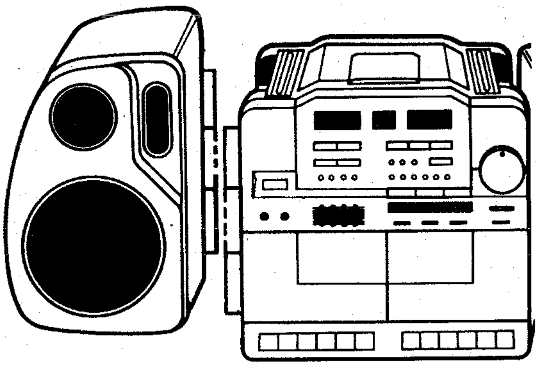


① HEADPHONE JACK
② MICROPHONE JACK
③ POWER SWITCH
④ CD-LCD DISPLAY
⑤ CD CONTROL SECTION
⑥ TUNER LCD DISPLAY
⑦ TUNER CONTROL SECTION
⑧ TIMER CONTROL SECTION
⑨ VOLUME CONTROL KNOB
⑩ FUNCTION SELECTOR SWITCH
⑪ BALANCE CONTROL KNOB
⑫ MODE BUTTON
⑬ SOUND PROCESSOR SELECTOR SWITCH
⑭ GRAPHIC EQUALIZER LEVEL CONTROLS
⑮ DECK A DOOR
⑯ DECK A CONTROL BUTTONS
⑰ FORWARD LED
⑱ REVERSE LED
⑲ DECK B DOOR
⑳ DECK B CONTROL BUTTONS
㉑ FM ANTENNA
㉒ CD DOOR
㉓ CD OUTPUT JACK
㉔ SPEAKER JACK
㉕ AC POWER SOCKET
㉖ BATTERY COVER

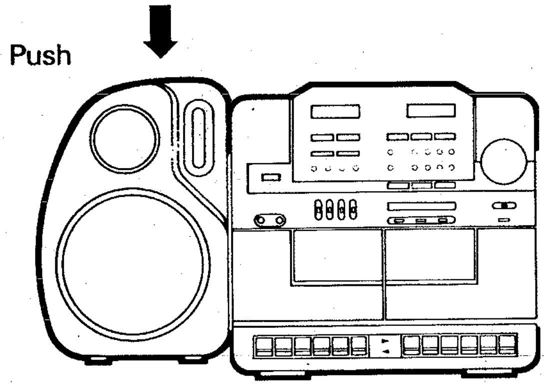
■ CONNECTING AND DISCONNECTING THE SPEAKER BOXES

Connecting the Speaker Boxes

1. Align each speaker box with the respective grooves as shown below.



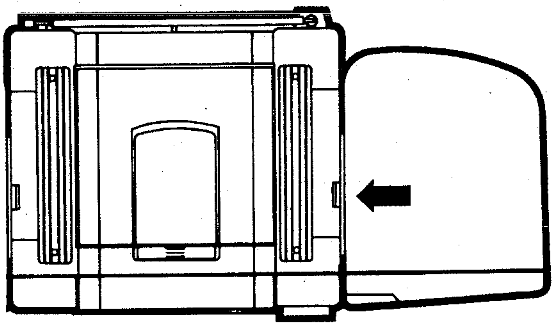
2. Slide the speaker boxes down the grooves.



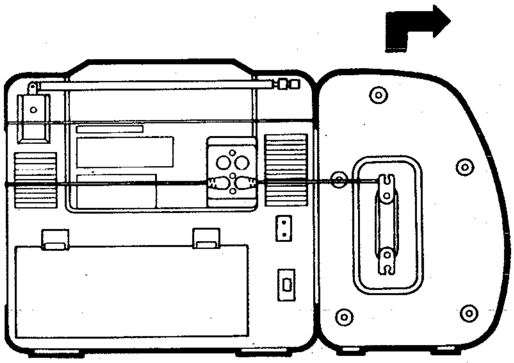
3. Connect the speaker cords to the speaker jacks checking that the left and right speaker cords are correctly connected.

Disconnecting the Speaker Boxes

1. Push the speaker box lock lever inwards.

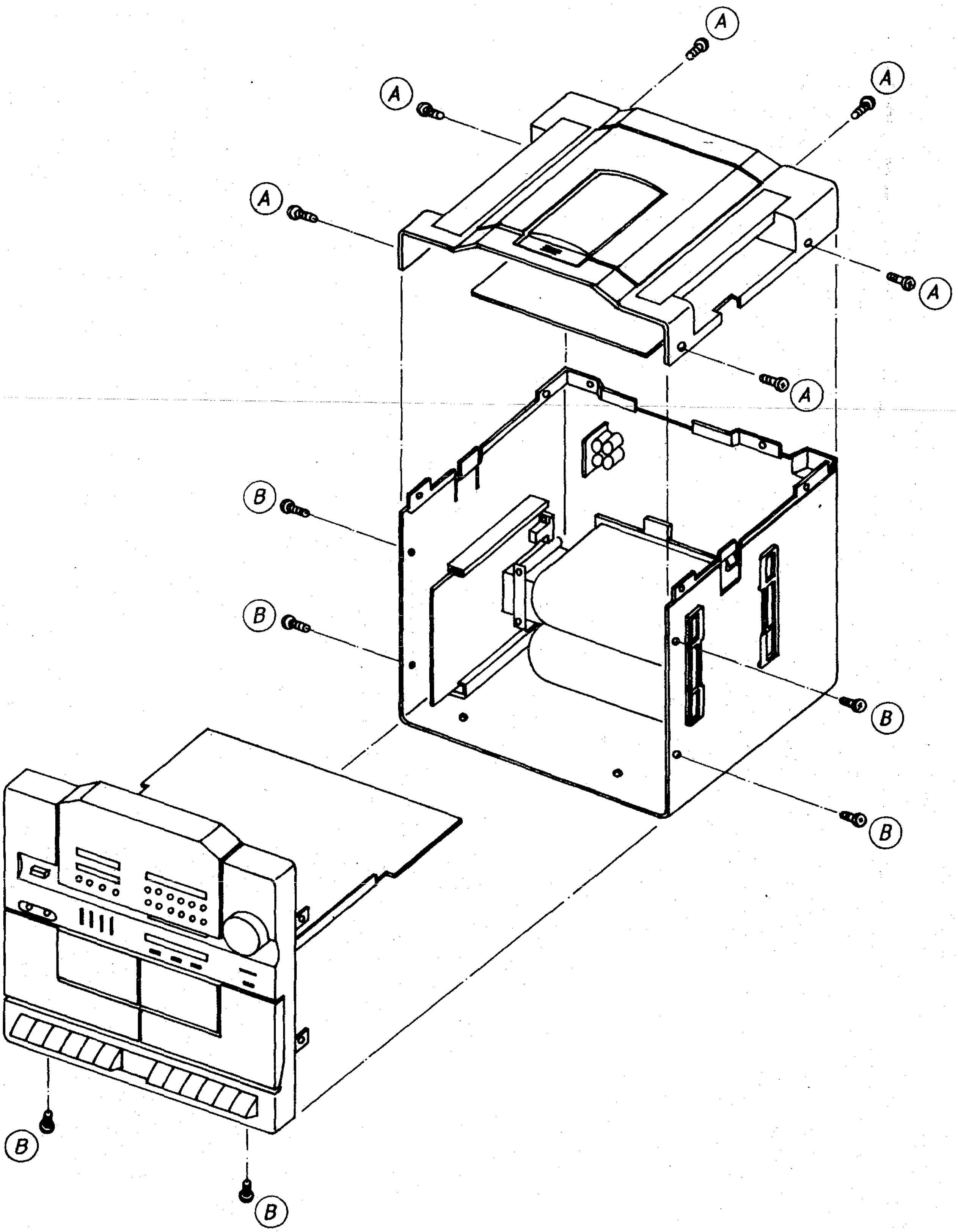


2. With the speaker box lock disengaged, lift the speaker box up and outwards.



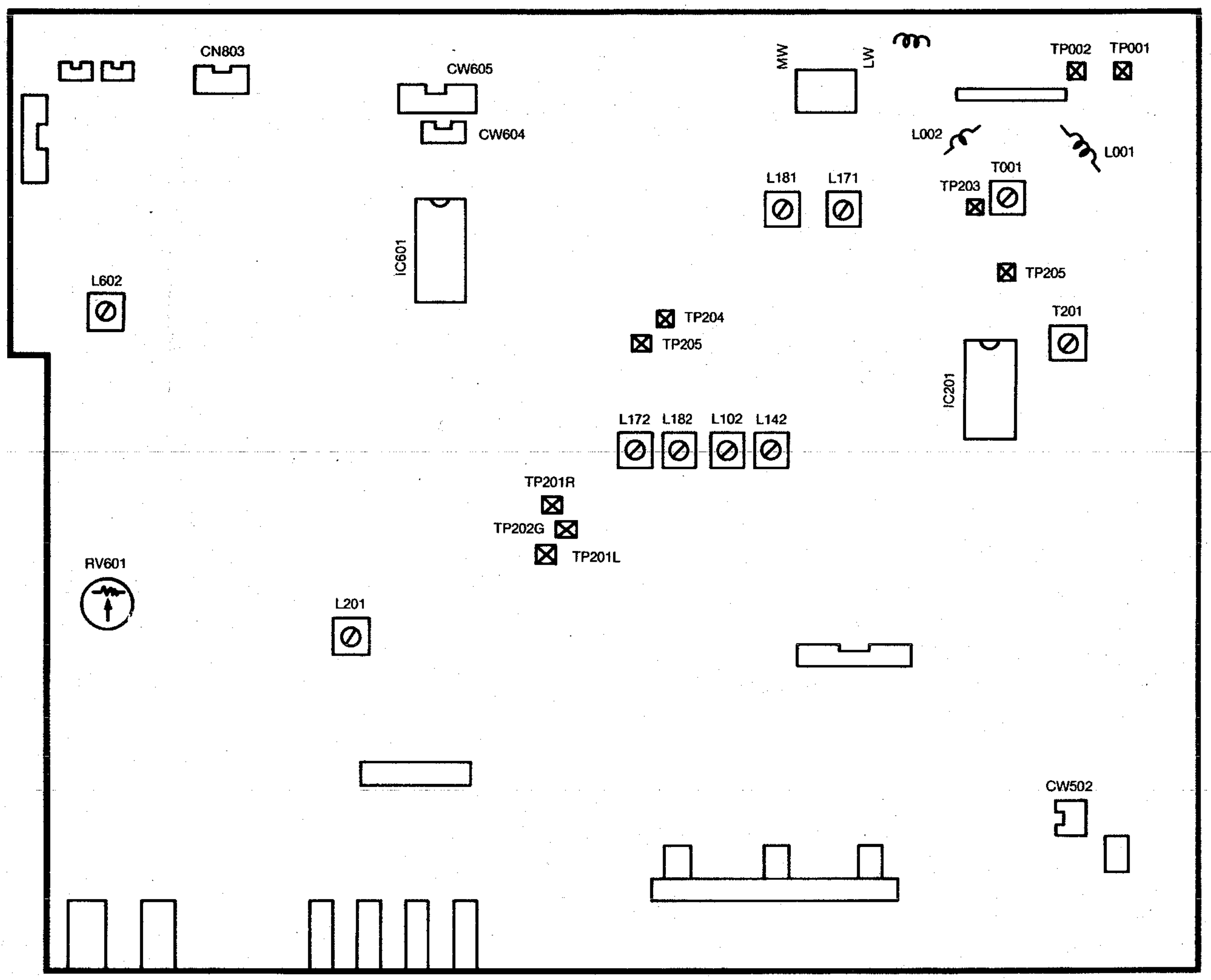
Note: Always make sure that the Power button is "OFF" when connecting or disconnecting the speaker cord.

2. DISASSEMBLY INSTRUCTIONS


A
A
A
A
A
A
A
B
B
B
B
B
B

3. ADJUSTMENTS

■ CASSETTE MECHANISM SECTION AND TUNER SECTION


CN803
CW605
CW604
MW
LW
TP002
TP001
L002
L001
T001
L181
L171
TP203
IC601
L602
TP205
TP204
TP205
T201
IC201
L172
L182
L102
L142
TP201R
TP202G
TP201L
RV601
L201
CW502

■ TAPE SPEED ADJUSTMENT

TEST TAPE MTT-111

1. PRELIMINARY WORK

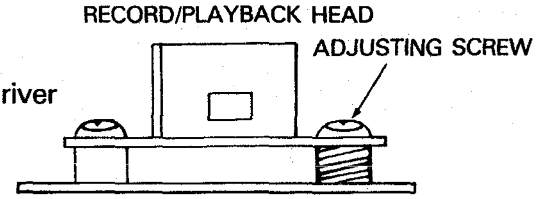
1-1. Push the power switch ON.
1-2. Place the function switch in TAPE position.
1-3. Connect the output from the headphone jack to the frequency counter.
1-4. Load the decks TAPE A and B with MTT-111N. (Use A side only.)

2. ADJUSTMENT PROCEDURES (Adjust in the steps below).

2-1. Press the play button of TAPE A and adjust RV601 to obtain 3020 Hz ± 10 Hz.
2-2. Press the play button of TAPE B and adjust RV601 for the frequency counter to read within 3000 Hz ~ 3020 Hz.
2-3. After adjustment is completed, stop the deck.
2-4. Place the Dubbing switch in High speed position.
2-5. Press the PLAY button to TAPE A.
2-6. Press the REC button to TAPE B.
2-7. Be sure to obtain 6000 Hz ~ 6100 Hz.

3. RECORD/PLAYBACK HEAD ADJUSTMENT

8 KHz test tape must be used for this adjustment.
Connect to VTVM or an oscilloscope to the headphone jack. or speaker terminal and adjust the azimuth by using a screwdriver to maintain the maximum output voltage.



CAUTION.

1. The test should be performed with the test tapes wound at the same position (diameter).
2. Proceed the adjustments with the set positioned vertically. If not, tape speed will lowers.
3. Stabilized power source DC 12V should be used.

■ RADIO TUNER ADJUSTMENT

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 450 KHz to 23 MHz AM.
2. Oscilloscope with a side amplifier of approximately 100 KHz.
3. Test loop-a coil of any size wire, one turn or more. (MW)
4. A 30 ohm dummy antenna.
5. VTVM.

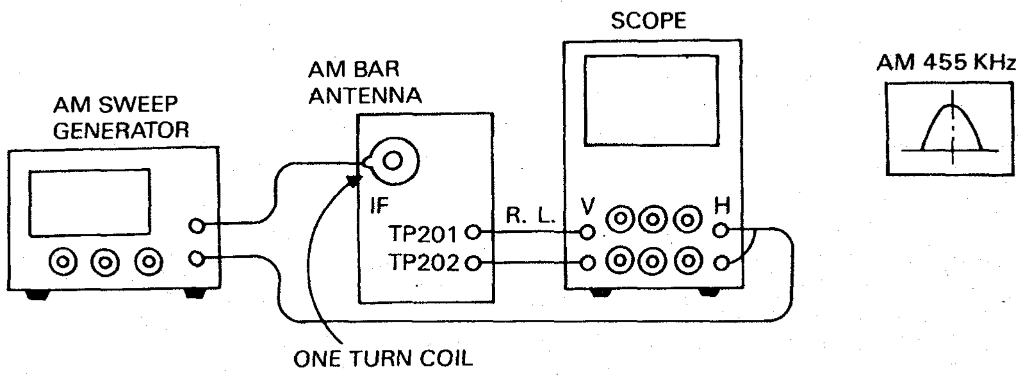
AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the headphone jack.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.

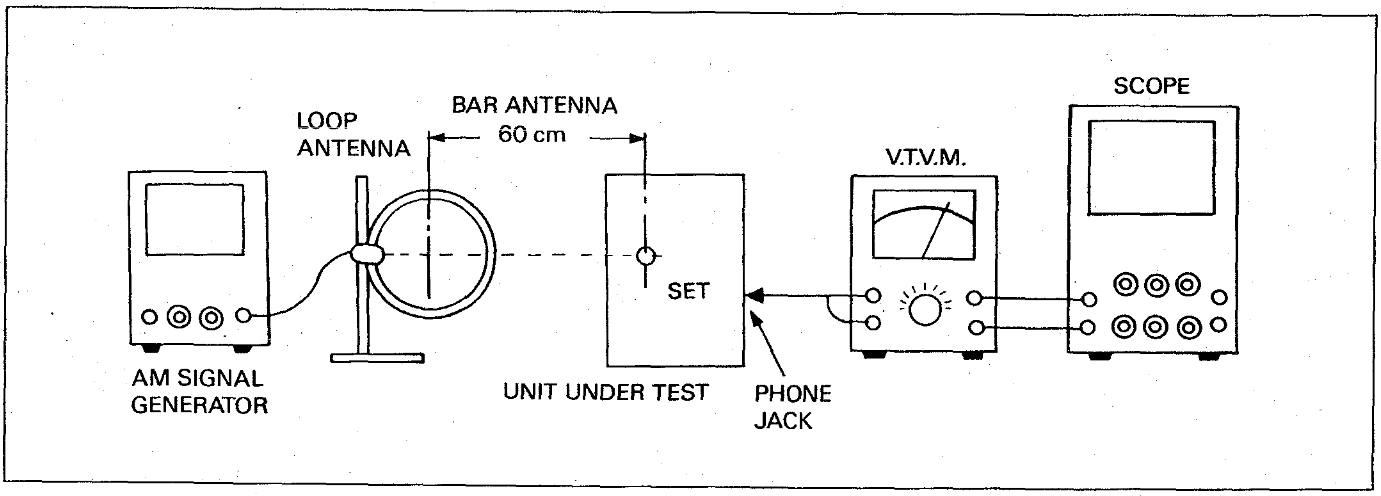
Note:

1. Use a screwdriver with plastic grip for all adjustments.
2. Standard test frequency 400 Hz and modulation 30% for AM.
3. Standard test frequency 410K Hz and deviation 22.5 KHz for FM.

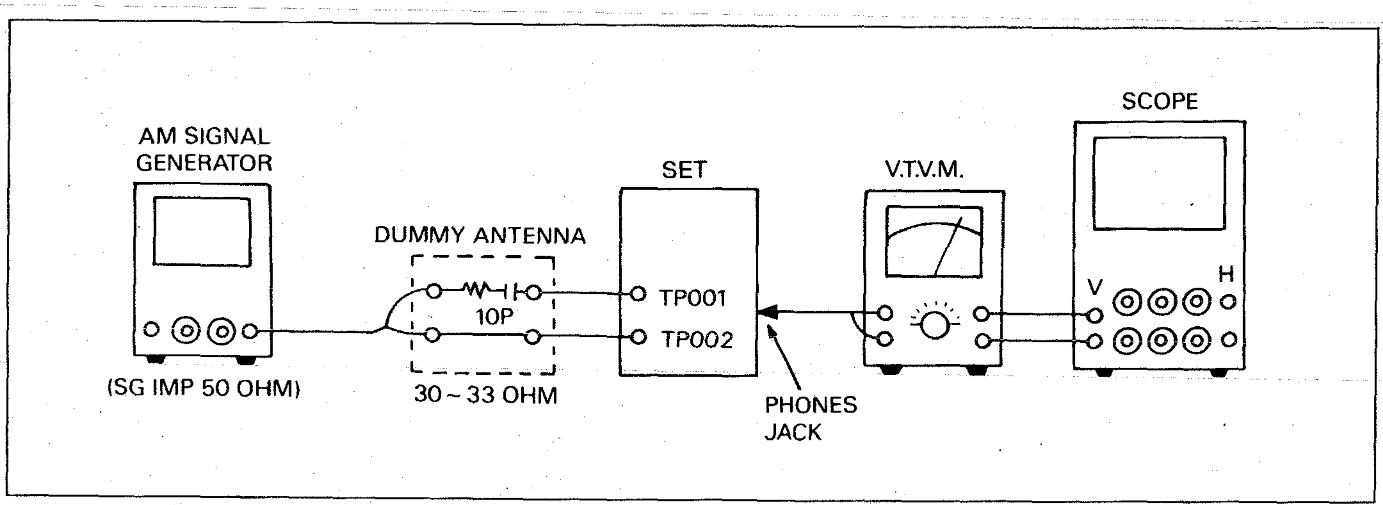
■ MW IF ALIGNMENT



■ MW ALIGNMENT

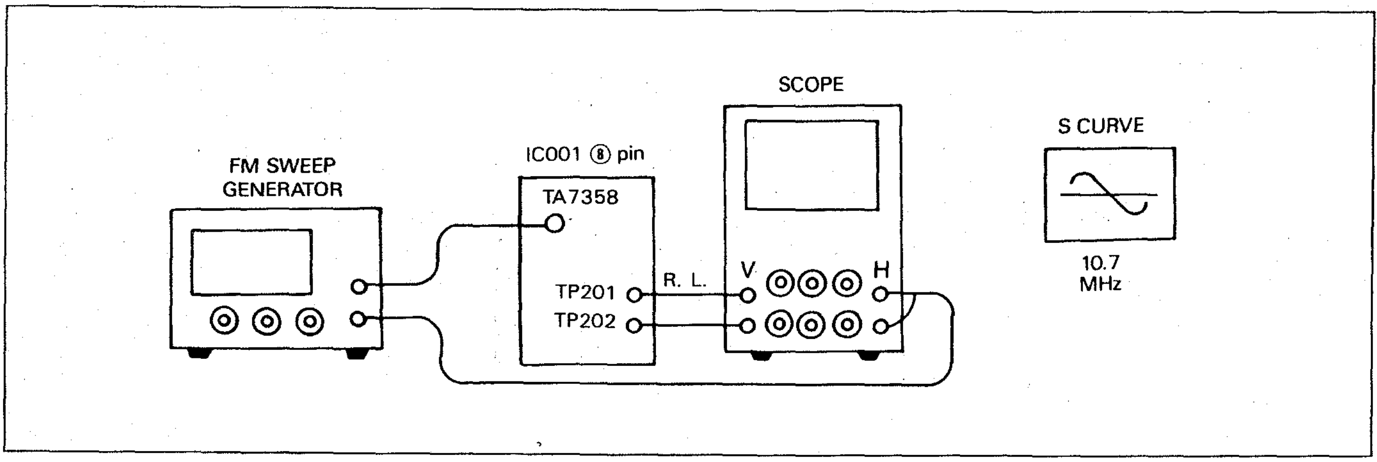

SCOPE
LOOP ANTENNA
BAR ANTENNA
60 cm
V.T.V.M.
SET
AM SIGNAL GENERATOR
UNIT UNDER TEST
PHONE JACK

■ SW ALIGNMENT


SCOPE
AM SIGNAL GENERATOR
SET
V.T.V.M.
DUMMY ANTENNA
10P
TP001
TP002
V
H
(SG IMP 50 OHM)
30 ~ 33 OHM
PHONES JACK

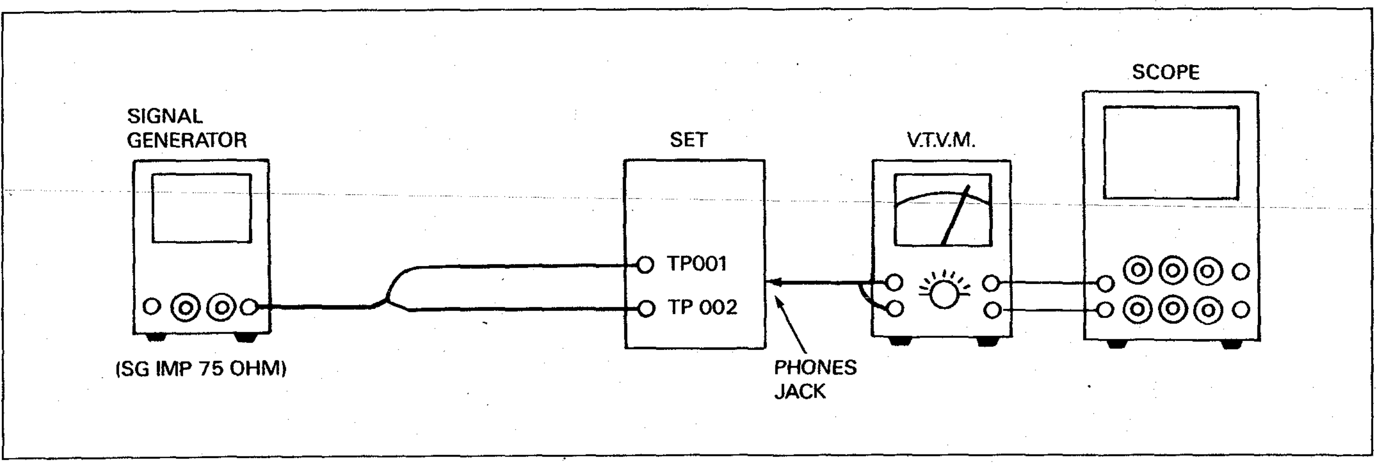
■ FM-IF ALIGNMENT

1. Set the select switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.


SCOPE
S CURVE
FM SWEEP GENERATOR
IC001 ⑧ pin
TA7358
TP201
TP202
R. L.
V
H
10.7 MHz

■ FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or the phones jack.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RF ALIGNMENT CHART.



■ TAPE ALIGNMENT CHART

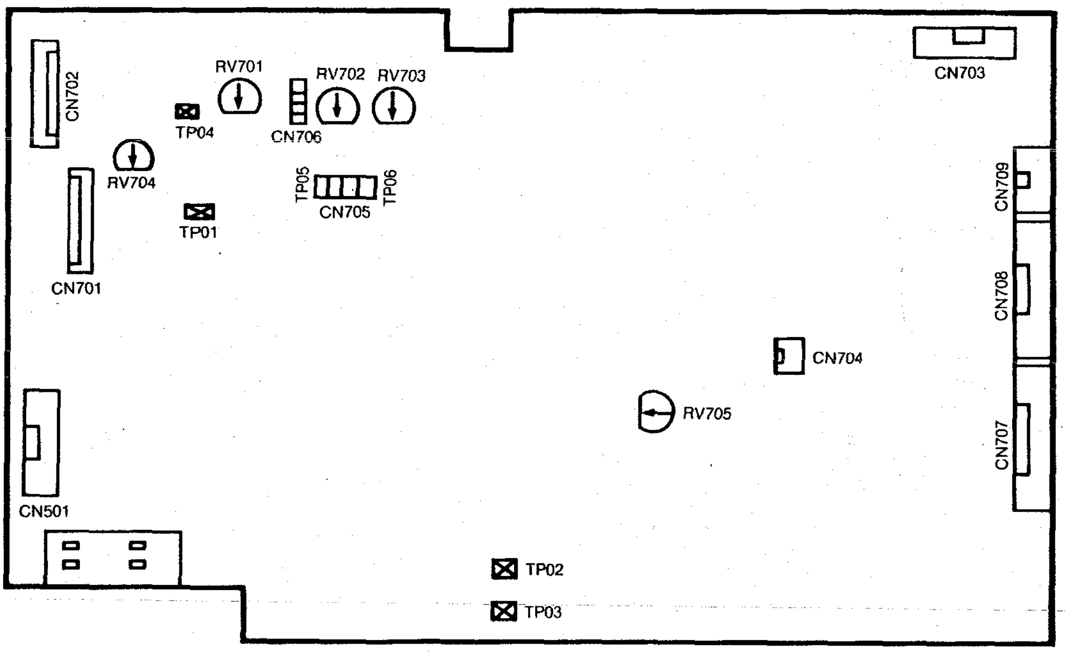
	Item	Reference Value	Tape	Adjustment Point	Test Point	Note
1	Tape Speed Adjustment DECK A, Standard Speed	3000±30 Hz	ATT-111	DECK A, RV601	SP-OUT	Adjust with frequency counter connected.
2	Bias Oscillator Frequency Adjustment	75 KHz±0.5	AC-212	DECK B, L602	R630 L/R GND	Mode switch: OFF Adjust with frequency counter connected.

■ FM AND AM RF ALIGNMENT CHART (IF)

Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adj-Point	Adjustment
	Unless otherwise specified set switches as follows: FM Function: FM Adjust generator frequency to a center of the FM band where no FM broadcast exists.					
1	IF Adjustment	Connect FM IF sweep output terminal to IC001	Connect T.P IF-OUT terminal to IF sweep input terminal.	FM in band end	T001	Adjust for straight and symmetrical S-curve with max. amplitude.
2	FM Band		DC Voltage Meter VT (TP203) and GND	87.5 MHz	L002	Adjust for DC 3.5V±0.1V
3	Tracking (1)	FM SG ANT. Terminal 90 MHz, 1 kHz ±22.5 kHz dev.	TP201 L/R GND	90.0 MHz MONO	L001	Adjust for max. output and best waveform.
4	Tracking (2)	106 MHz, 1 kHz ±22.5 kHz dev.	TP201 L/R GND	106 MHz	TC001	Same as above
5	Repeat steps 3 and 4.					
	MW					
1	IF Adjustment	Connect standard loop antenna to output terminal of genescope	Connect input terminal of genescope to detector output	MW in band end	T201	Adjust for max. amplitude with symmetrical 450 kHz.
2	MW Band		DC Voltage Meter VT(TP204) and GND (TP205)	530 kHz	L102	Adjust for DC 1.0V±0.1V
3	Tracking (1)	600 kHz 400 Hz, 30% mod.	TP201 L/R GND	600 kHz	L101	Adjust for max. output and best waveforms.
4	Tracking (2)	1400 kHz 400 Hz, 30% mod.	TP201 L/R GND	1400 kHz	TC101	Same as above.
5	Repeat steps 3 and 4.					
	LW					
1	LW Band		DC Voltage Meter VT(TP204) and GND (TP205)	153 kHz	L142	Adjust for DC 1.0V±0.1V
2	Tracking (1)	170 kHz 400 Hz, 30% mod.	TP201 L/R GND	170 kHz	L141	Adjust for max. output and best waveforms.
3	Tracking (2)	260 kHz 400 Hz, 30% mod.	TP201 L/R GND	260 kHz	TC141	Same as above.
4	Repeat steps 2 and 3.					
	SW1					
1	SW Band		DC Voltage Meter and GND	2.3 MHz	L182	Adjust for DC 2.0V±0.1V
2	Tracking (1)	2.9 MHz 400 Hz, 30% mod.	TP201 L/R GND	3.0 MHz	L181	Adjust for max. output and best waveforms.
3	Tracking (2)	5.5 MHz 400Hz, 30% mod.	TP201 L/R GND	5.5 MHz	TC181	Same as above.
4	Repeat steps 2 and 3.					
	SW2					
1	SW Band		DC Voltage Meter and GND	7.1 MHz	L172	Adjust for DC 1.8V±0.1V
2	Tracking (1)	8 MHz 400 Hz, 30% mod.	TP201 L/R GND	8 MHz	L171	Adjust for max. output and best waveforms.
3	Tracking (2)	21 MHz 400Hz, 30% mod.	TP201 L/R GND	21 MHz	TC171	Same as above.
4	Repeat steps 2 and 3.					

CAUTION: When realigning the FM Receiving Frequency, the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

■ CD SECTION


RV701
RV702
RV703
CN703
CN702
TP04
CN706
RV704
TP05
CN705
TP06
TP01
CN709
CN701
CN708
CN704
RV705
CN707
CN501
TP02
TP03

—Test point & volume location

RV701,	Focus offset	TP01, TP04 (Vref)
RV702,	Focus Gain	TP02, TP04 (Vref)
RV703,	Tracking Gain	TP03, TP04 (Vref)
RV704,	Tracking Balance	TP03, TP04 (Vref)
RV704,	PLL	TP05, TP06 (GND)

1. Checking point before adjustment

1) Connect TP8 to GND and confirm the LCD checking.
2) Laser on checking. (without disc)
3) Focus search checking. (without disc)

2. Adjustment mode set

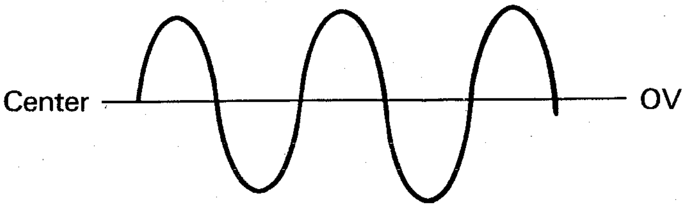
1) Set all of the adjustment volume to center position.
2) Connect JIG "A" to CN705.
3) Use SRCD-4-002 disc (or YEDS-18) unless other wise indicated.
4) Perform adjustment in the order given.

3. Adjustment

1) PLL adjustment
   (1) Turn on the power switch (stop mode).
   (2) Connect the frequency counter to TP05, TP06 (GND).
   (3) Adjust EV705 so that frequency counter indicate 5.15 MHz ± 50KHz.

2) Focus offset adjustment
   (1) Connect oscilloscope (more than 40MHz) to TP01, TP04 (GND terminal of scope).
   (2) Insert a disc and press the PLAY/PAUSE button.
   (3) Adjust RV701 for an optinum waveform of eyepatten. (0.2V/DIV, 0.5μ sec/DIV, AC).

3) Tracking balance adjustment
   (1) Connect oscilloscope to TP03, TP04 (GND terminal of scope) (0.5V/DIV, 5msec/DIV, DC).
   (2) Insert a disc and press the PLAY/PAUSE button.
   (3) Turn the volume of RV703 to counterclockwise (TE Gain minimum).
   (4) Adjust RV704 so that the waveform is symmetry above and below relative OV. (Fig. 11)
   (5) Return RV703 to center position.



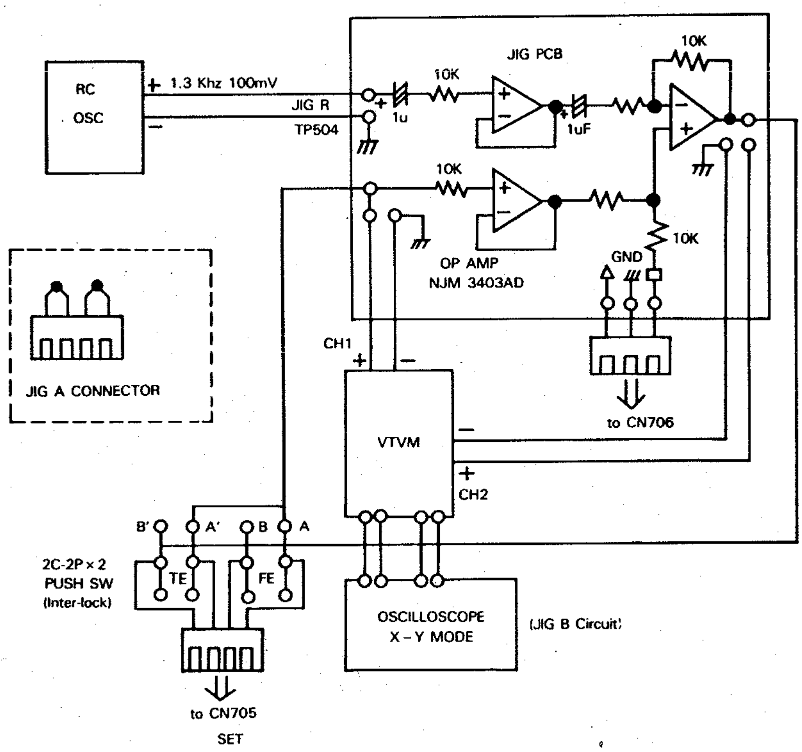
4) Focus gain adjustment
   (1) Remove JIG "A".
   (2) Connect JIG "B" according to JIG circuit. And turn the switch of JIG to FE.
   (3) Turn on the power switch.
   (4) Press PLAY/PAUSE button.
   (5) Adjust RV702 so that the two needle of VTVM meed at the same point.

5) Tracking gain adjustment
   (1) Connect JIG B according to JIG circuit. And turn the switch of JIG to TE.
   (2) Turn on the power switch.
   (3) Press PLAY/PAUSE button.
   (4) Adjust RV703 so that the two needle of VTVM meed at the same point.

6) After adjustment
   Shorten the number 1,2 of CN705, and number 3,4 each other.

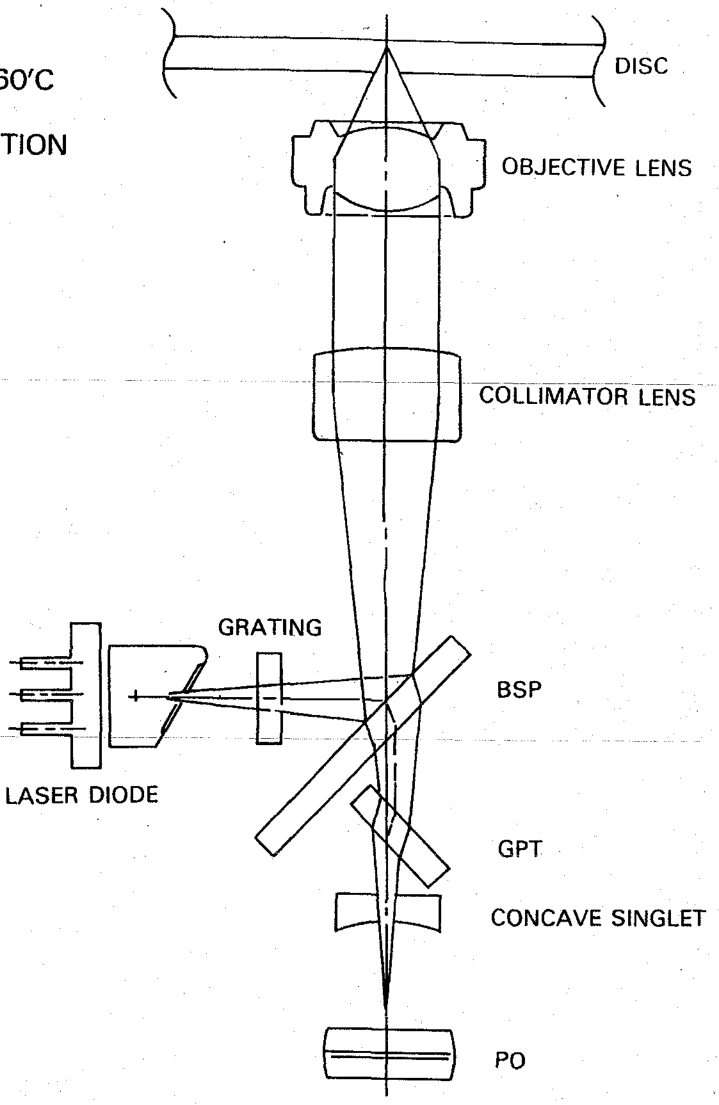
■ ZD PLAYER SECTION

*FOCUS GAIN AND TRACKING GAIN
(GAIN ADJUSTMENT JIG CIRCUIT)


RC
OSC
+ 1.3 Khz 100mV
JIG R
TP504
1u
10K
JIG PCB
1uF
10K
10K
10K
OP AMP
NJM 3403AD
GND
10K
JIG A CONNECTOR
CH1
VTVM
CH2
to CN706
B'
A'
B
A
2C-2P×2
PUSH SW
(Inter-lock)
TE
FE
OSCILLOSCOPE
X-Y MODE
(JIG B Circuit)
to CN705
SET

UNDERSTAND OF LASER FIELD

1. LASER DIODE
   This LASER PRODUCT USE to GaAs.
   Double Stereo Laser Diode.
   It utilizes PIN function the same as a Light Emitting Diode.
   It has the following Specification
   1) Reverse Voltage VRL 5V
   2) Limit Power PLM. 5mW
   3) Operating temperature TC −40 −60′C
   4) Wave Length 780±25mm
   5) Specification NO: SONY CORPORATION
      KSM-150B-DM


DISC
OBJECTIVE LENS
COLLIMATOR LENS
GRATING
BSP
LASER DIODE
GPT
CONCAVE SINGLET
PO

(OPTICAL SYSTEM BLOCK) (Fig. 1)

2. GRATING
   It is possible to get 1st beam with main beam while Laser radiation Passes through the narrow slit. Diffracion Grid made by arrangement of narrow line on the glass so when the Laser radiation from Laser diode is through the diffraction grid it has two kinds of beam called main beam and sub beam.

3. BSP
   This beam from the laser diode will reflet this prism and pass beam from the compact disc will heat to the photo detector.
   This prism performs selective reflection.

4. Collimator Lens
   This lens changes the laser diode light into parallel light.

5. CONCAVE SINGLET
   This lens concentrate the laser beam from the prism on the photo diode. Figure 2 shows the concentration of the laser beam by the cylinderical lens.

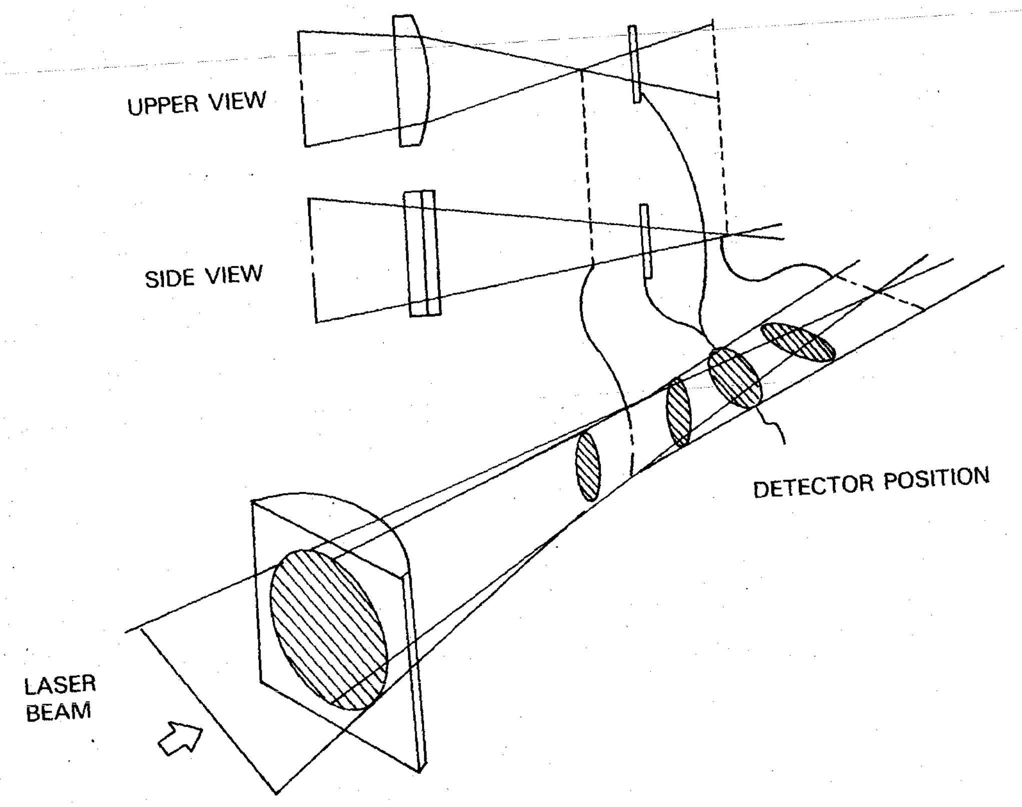
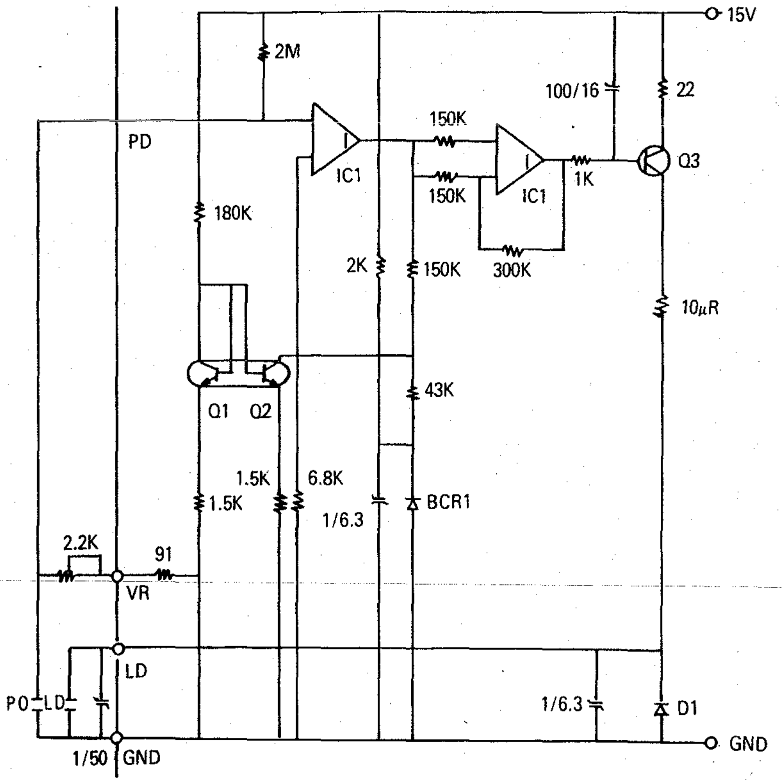

UPPER VIEW
SIDE VIEW
DETECTOR POSITION
LASER BEAM

FIG. 2

ALPC Circuit


15V
2M
100/16
22
PD
150K
IC1
150K
IC1
1K
Q3
180K
2K
150K
300K
10μR
Q1
Q2
43K
1.5K
1.5K
6.8K
1/6.3
BCR1
2.2K
91
VR
LD
PO
LD
1/6.3
D1
GND
1/50
GND

Q1 Q2 : 2SC3063~3067 or 2SC2291
Q3 : 2S8731
BGR1 : ZN423
D1 : 1S1555
IC1 : LM358

Fig. 3

This circuit automatically control the Laser power for the constant Laser power source.

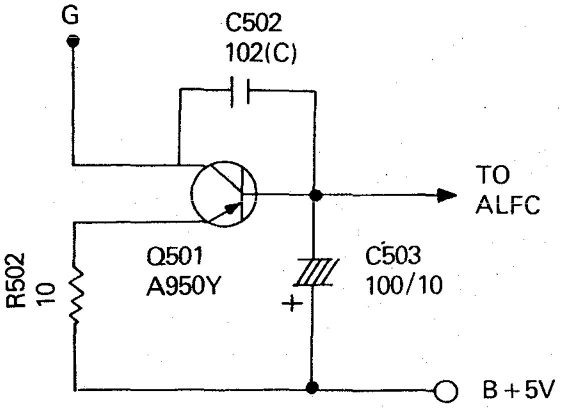

G
C502
102(C)
TO
ALFC
Q501
A950Y
C503
100/10
+
R502
10
B+5V

Fig. 4

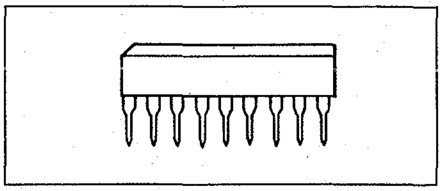
(5V) Supply is made by regulator TR.

CXA1081M control the Laser diode.

Laser diode will emit only during in play mode. If there is no disc in the disc table, laser diode will turn off at once.

4. IC BLOCK DIAGRAM

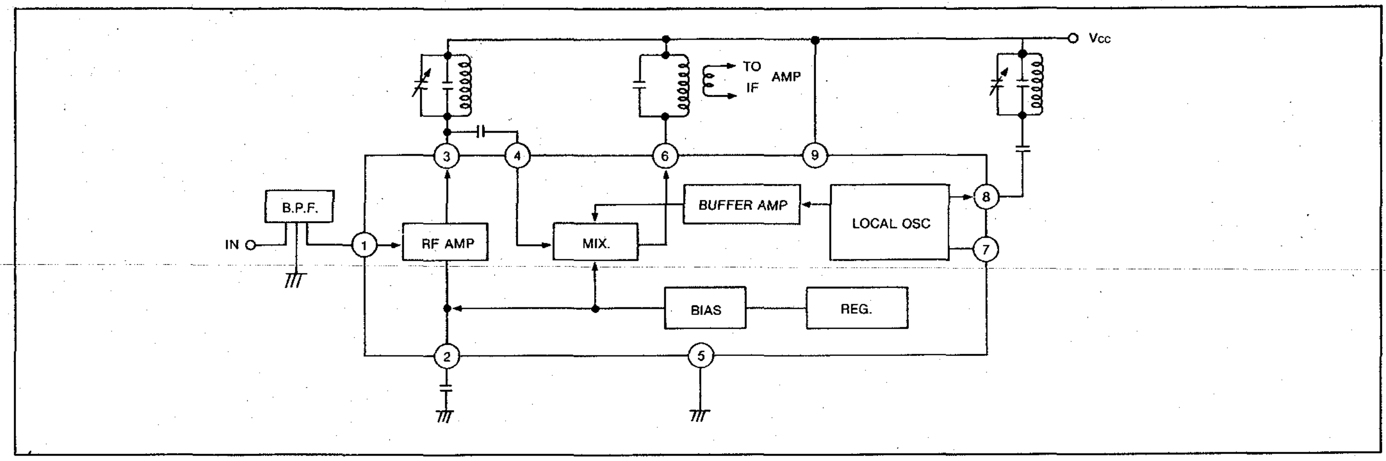
TA7358AP



FM FRONT-END

The TA7358AP is designed for a FM front-end application, which is suitable to a portable radio or a radio cassette.
Comparing with conventional types, supply voltage dependence, overload characteristics and spurious radiation characteristics are improved.

BLOCK DIAGRAM

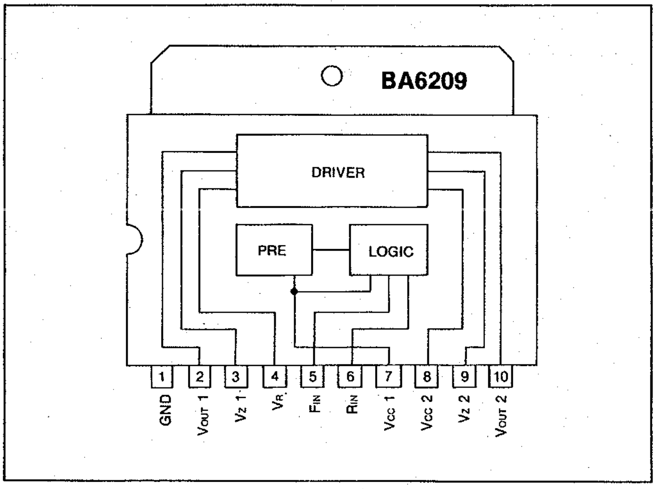


ELECTRICAL CHARACTERISTICS

($V_{CC}=5V$, f = 83 MHz, $f_m=1$ KHz. Δf = 22.5 KHz dev., Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Current		I_{CC}	2	$V_{IN}=0$	—	5.2	8.0	mA
−3dB Limiting Sensitivity		$V_{IN\ (lim)}$	2		—	3.0	7.0	dBμ
Quiescent Sensitivity		Qs	2		—	11.0	—	dBμ
Conversion Gain		Gc	—		—	31	—	dB
Local OSC Voltage		V_{OSC}	1	$f_{osc}=60$ MHz	90	165	220	mVrms
1 Pin Impedance	Parallel Input Resistance	r_{ip1}	3	f = 83 MHz	—	57	—	Ω
3 Pin Impedance	Parallel Output Resistance	r_{op3}	3		—	25	—	kΩ
	Parallel Output Capacitance	C_{op3}			—	2.0	—	pF
4 Pin Impedance	Parallel Input Resistance	r_{ip4}	3		—	2.7	—	kΩ
	Parallel Input Capacitance	C_{ip4}			—	3.3	—	pF
6 Pin Impedance	Parallel Output Resistance	r_{op6}	3	f = 10.7 MHz	—	100	—	kΩ
	Parallel Output Capacitance	C_{op6}			—	4.8	—	pF
Local OSC Stop Voltage		V_{stop}	1		—	0.9	1.3	V

The BA6209 is a reversible motor driver that can directly drive a motor to be reversibly rotated, e.g., loading motor of VTR, capstan motor and reel motor.
Motor dash current, often occurring during reversing or STOP, can be effectively absorbed, while resisting a dash current up to 1.6A.


BA6209
DRIVER
PRE
LOGIC
1
2
3
4
5
6
7
8
9
10
GND
VOUT 1
VZ 1
VR
FIN
RIN
VCC 1
VCC 2
VZ 2
VOUT 2

TEST CIRCUITS

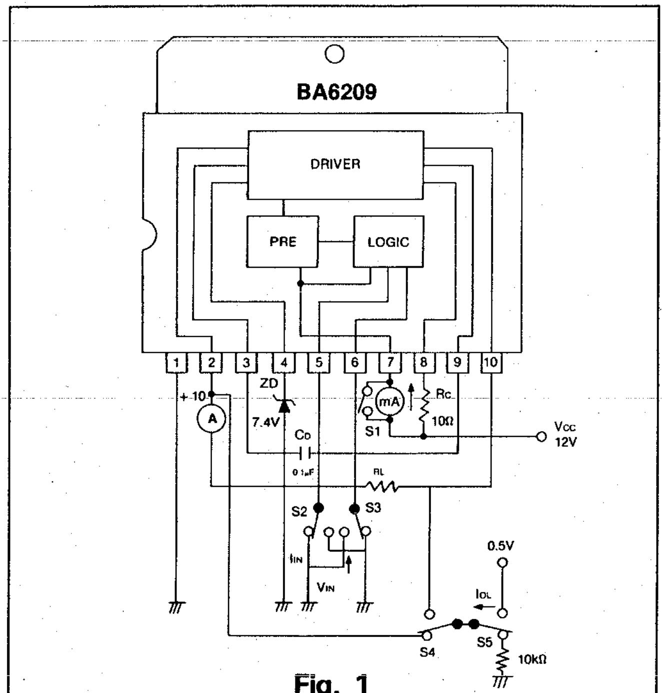

BA6209
DRIVER
PRE
LOGIC
1
2
3
4
5
6
7
8
9
10
+10
A
ZD
7.4V
CD
0.1μF
mA
S1
RC
10Ω
VCC
12V
RL
S2
S3
IIN
VIN
0.5V
IOL
S4
S5
10kΩ

Fig. 1

APPLICATION EXAMPLE

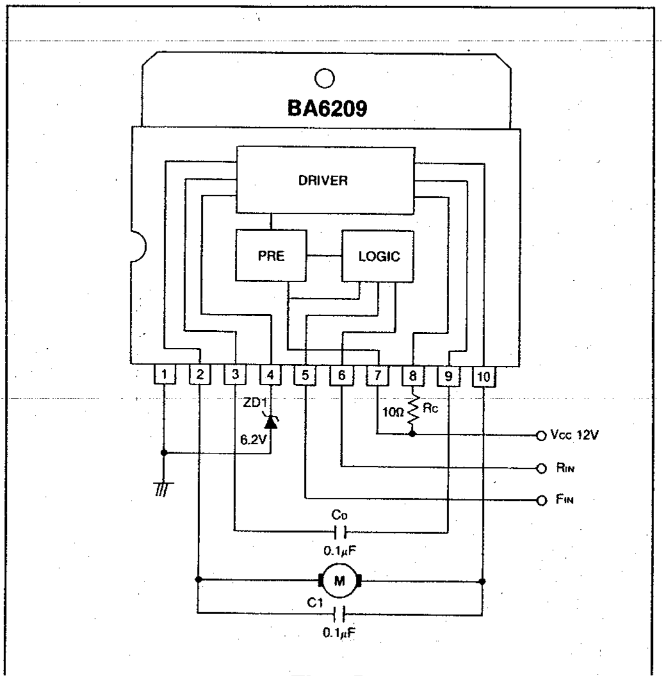

BA6209
DRIVER
PRE
LOGIC
1
2
3
4
5
6
7
8
9
10
ZD1
6.2V
10Ω
RC
VCC 12V
RIN
FIN
CO
0.1μF
M
C1
0.1μF

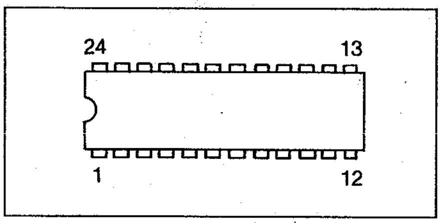
Fig. 2

INPUT/OUTPUT DATA

FIN	RIN	VOUT 1	VOUT 2
H	H	L	L
L	H	L	H
H	L	H	L
L	L	L	L

Note: ① Input Level H=2.0V UP
② Input Level L=0.7V DOWN

TA-8132N



3V AM/FM IF+MPX (for Digital Tuning System)

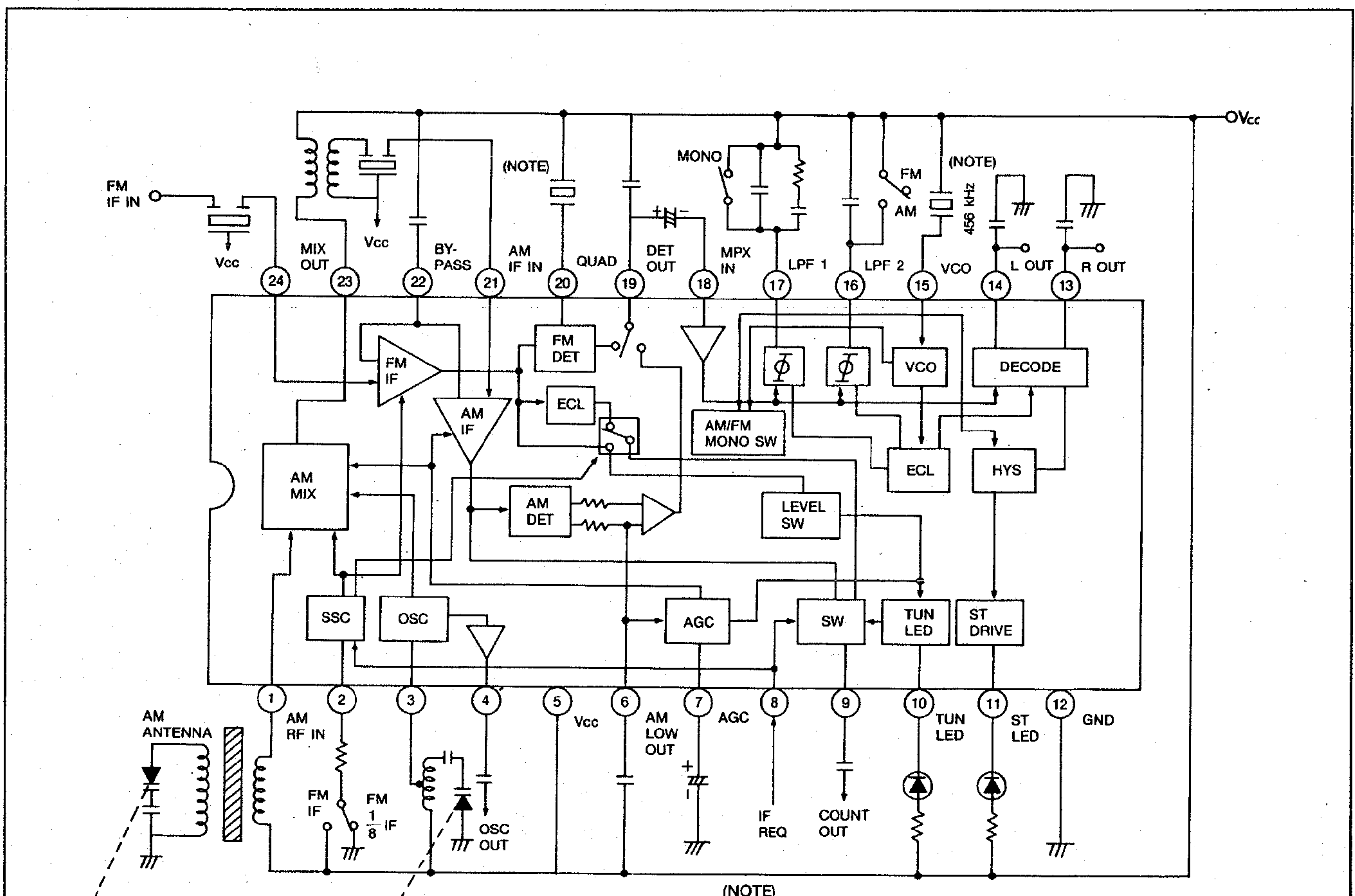
TA8132N/F are the AM/FM IF+MPX system IC's, which are designed for DTS Radios. These are included many functions and these can be used for Digital Tuning System with IF Counter.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTICS		SYMBOL	RATING	UNIT
Supply Voltage		V_{CC}	8	V
LED Current		I_{LED}	10	mA
LED Voltage		V_{LED}	8	mV
Power Dissipation	TA8132N	T_D	1200	mW
	TA8132F		400	
Operating Temperature		T_{opr}	−25~75	°C
Storage Temperature		T_{stg}	−55~150	°C

Note: Derated above Ta = 25°C in proportion of 9.6mW/°C for TA8132N and of 3.2mW/°C for TA8132F.

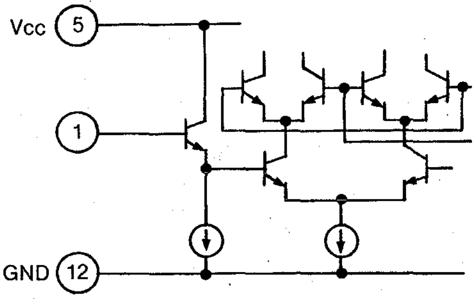
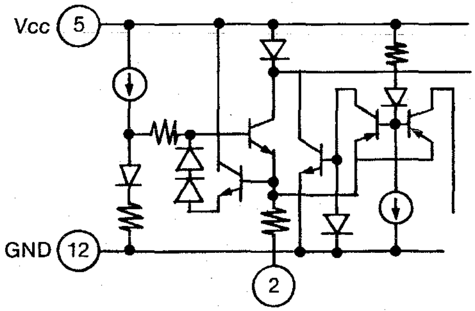
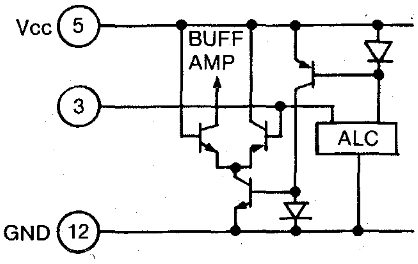
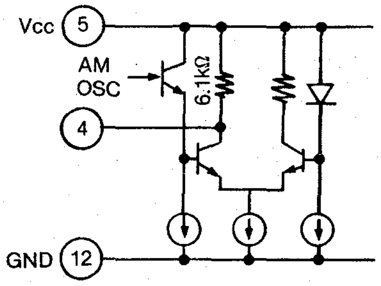
BLOCK DIAGRAM

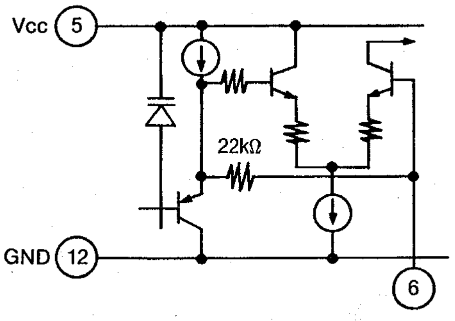
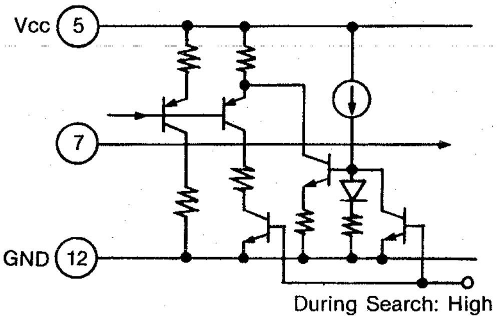
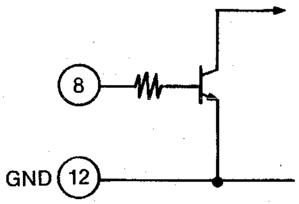
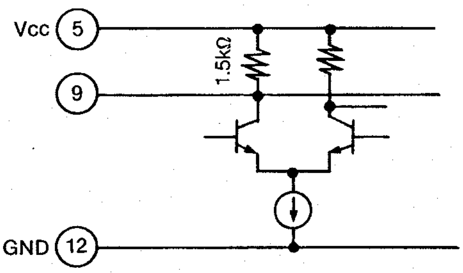
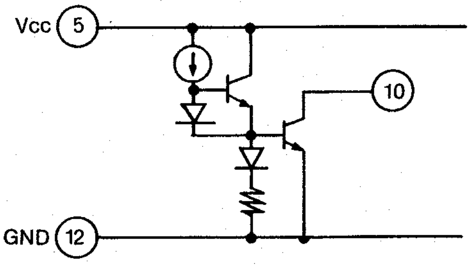


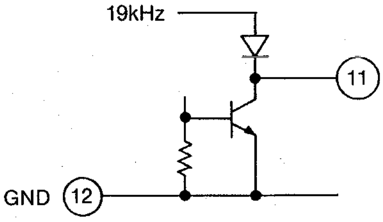
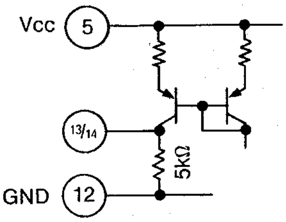
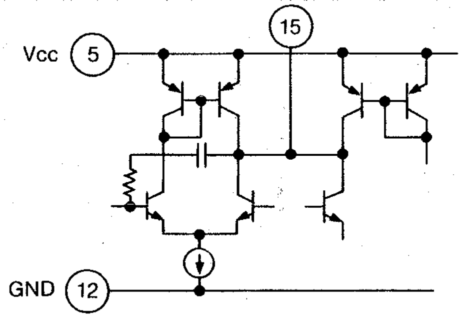
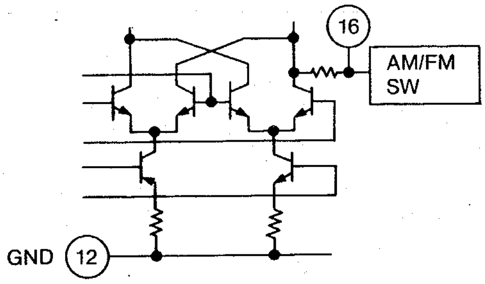
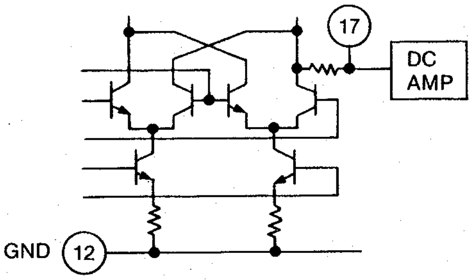
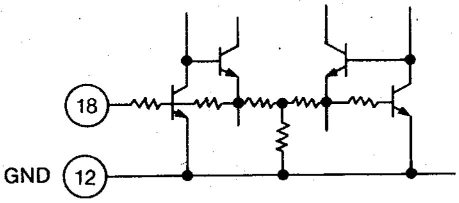
OVcc
FM IF IN
Vcc
MIX OUT
Vcc
BY-PASS
AM IF IN
QUAD
(NOTE)
DET OUT
MONO
MPX IN
LPF 1
FM
AM
LPF 2
(NOTE)
456 kHz
VCO
L OUT
R OUT
24
23
22
21
20
19
18
17
16
15
14
13
FM IF
FM DET
AM IF
ECL
AM MIX
AM/FM MONO SW
Φ
Φ
VCO
DECODE
ECL
HYS
AM DET
LEVEL SW
SSC
OSC
AGC
SW
TUN LED
ST DRIVE
1
2
3
4
5
6
7
8
9
10
11
12
AM ANTENNA
AM RF IN
FM IF
FM 1/8 IF
OSC OUT
Vcc
AM LOW OUT
AGC
IF REQ
COUNT OUT
TUN LED
ST LED
GND

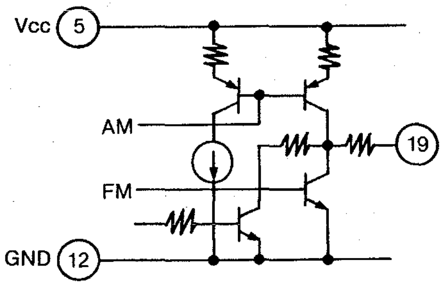
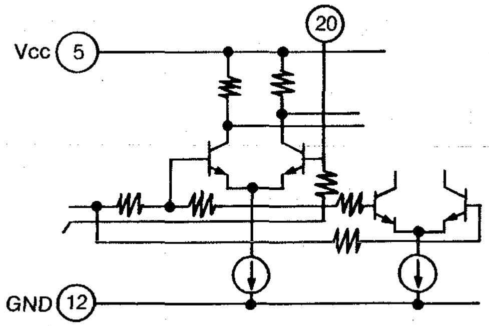
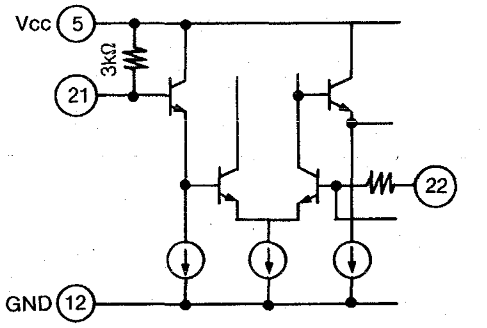
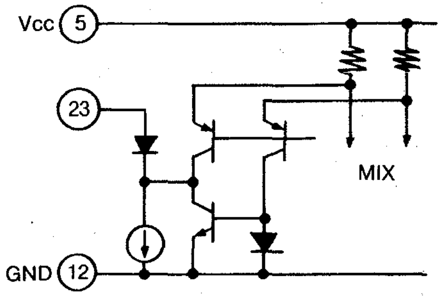
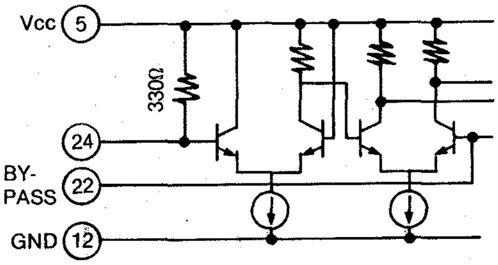
(NOTE)
We recommend
Ceramic resonator : CSB456F18
Ceramic discriminator: CDA107MG18

TERMINAL EXPLANATION

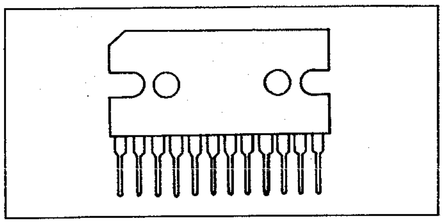
PIN NO.	ITEM	INTERNAL CIRCUIT	DC VOLTAGE (V) (at no signal)	
			AM	FM
1	AM RF IN	 Vcc 5 1 GND 12	3.0	3.0
2	•IF Count Output Sensitivity Adjust Terminal •FM IF Divider Control Terminal	 Vcc 5 GND 12 2	—	—
3	AM OSC	 Vcc 5 BUFF AMP 3 ALC GND 12	3.0	3.0
4	AM OSC OUT	 Vcc 5 AM OSC 6.1kΩ 4 GND 12	2.7	3.0
5	Vcc		3.0	3.0

PIN NO.	ITEM	INTERNAL CIRCUIT	DC VOLTAGE (V) (at no signal)	
			AM	FM
6	AM LOW CUT	 Vcc 5 22kΩ GND 12 6	2.3	2.3
7	AGC	 Vcc 5 7 GND 12 During Search: High	0.25	0.35
8	IF OUT SW		—	—
9	IF OUT	 Vcc 5 1.5kΩ 9 GND 12	3.0	3.0
10	TUN LED (Tuning LED)	 Vcc 5 10 GND 12	—	—

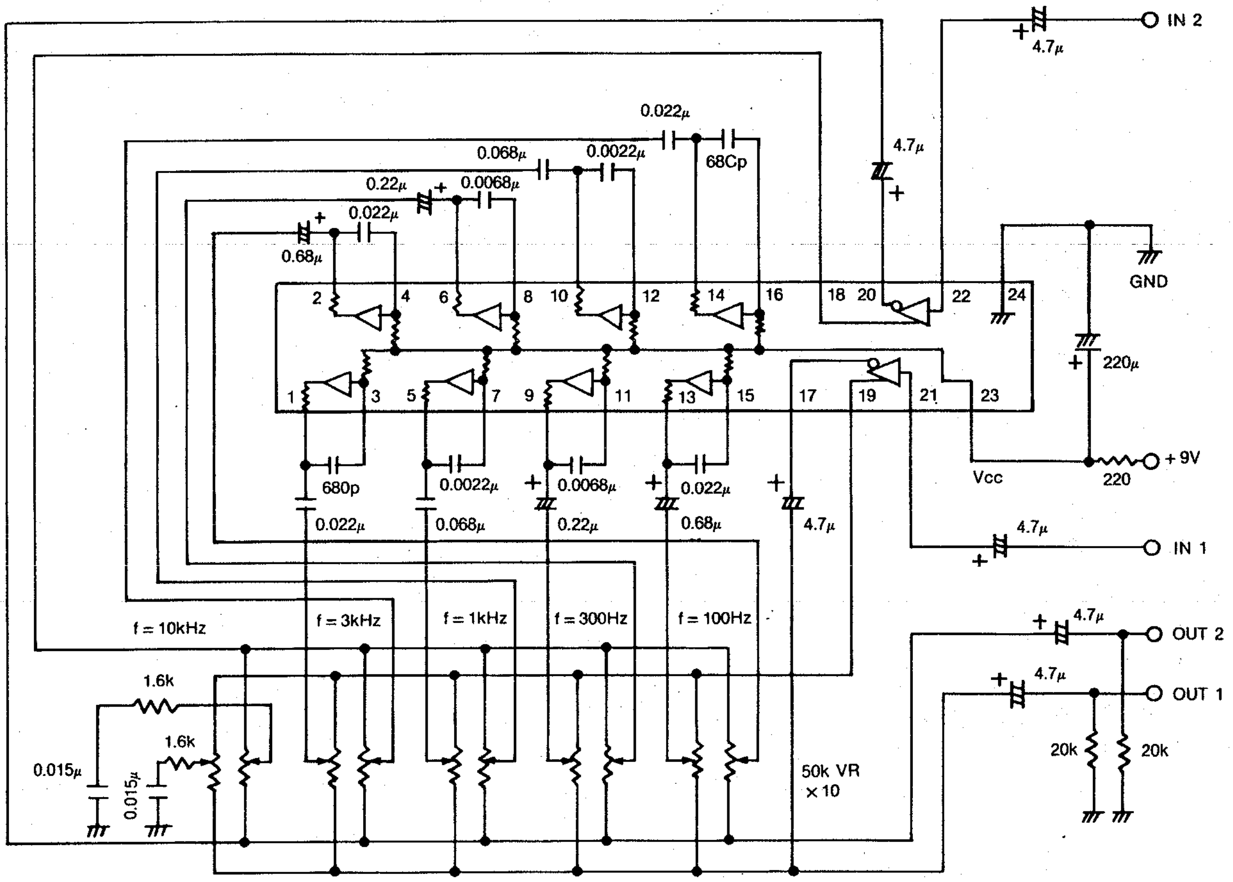
PIN NO.	ITEM	INTERNAL CIRCUIT	DC VOLTAGE (V) (at no signal)	
			AM	FM
11	ST LED (Stereo LED)	 19kHz 11 GND 12	—	—
12	GND		0	0
13 14	R-OUT L-OUT	 Vcc 5 13/14 5kΩ GND 12	1.0	1.0
15	Vco	 15 Vcc 5 GND 12	2.5	2.5 Vco stop mode
16	LPF2 •LPF Terminal for Synchronous Detector •Bias Terminal for AM/FM Switch Circuit $V_{16}=V_{cc}$ → AM V_{16}=open → FM	 16 AM/FM SW GND 12	3.0	2.2
17	LPF1 •LPF Terminal for Phase Detector •Vco Stop Terminal $V_{17}=V_{CC}$ → Vco Stop	 17 DC AMP GND 12	2.7	2.2
18	MPX IN		0.7	0.7

PIN NO.	ITEM	INTERNAL CIRCUIT	DC VOLTAGE (V) (at no signal)	
			AM	FM
19	DET OUT	 Vcc 5 AM 19 FM GND 12	1.1	1.1
20	QUAD (FM QUAD Detector)	 20 Vcc 5 GND 12	2.4	2.1
21	AM IF	 Vcc 5 3KΩ 21 22 GND 12	3.0	3.0
22	BY-PASS AM IF AMP FM IF AMP BY-PASS		2.3	2.8
23	AM MIX OUT	 Vcc 5 23 MIX GND 12	3.0	3.0
24	FM IF IN	 Vcc 5 330Ω 24 BY-PASS 22 GND 12	3.0	3.0

BA-3824LS



BA3824LS are monolithic IC for stereo 5—point graphic equalizers.


IN 2
4.7μ
0.022μ
68Cp
0.068μ
0.0022μ
0.22μ
0.0068μ
0.022μ
0.68μ
4.7μ
GND
2
4
6
8
10
12
14
16
18
20
22
24
220μ
1
3
5
7
9
11
13
15
17
19
21
23
680p
0.022μ
0.0022μ
0.068μ
0.0068μ
0.22μ
0.022μ
0.68μ
4.7μ
Vcc
220
+9V
4.7μ
IN 1
f = 10kHz
f = 3kHz
f = 1kHz
f = 300Hz
f = 100Hz
4.7μ
OUT 2
4.7μ
OUT 1
1.6k
1.6k
0.015μ
0.015μ
20k
20k
50k VR
×10

TA 8189N

QUAD PRFAMPLIFIER FOR DOUBLE CASSETTE TAPE RECORDER

KIA6289N is a Quad pre amplifier designed for use in record/play back amplifier. It is suitable for double cassette tape recorder.

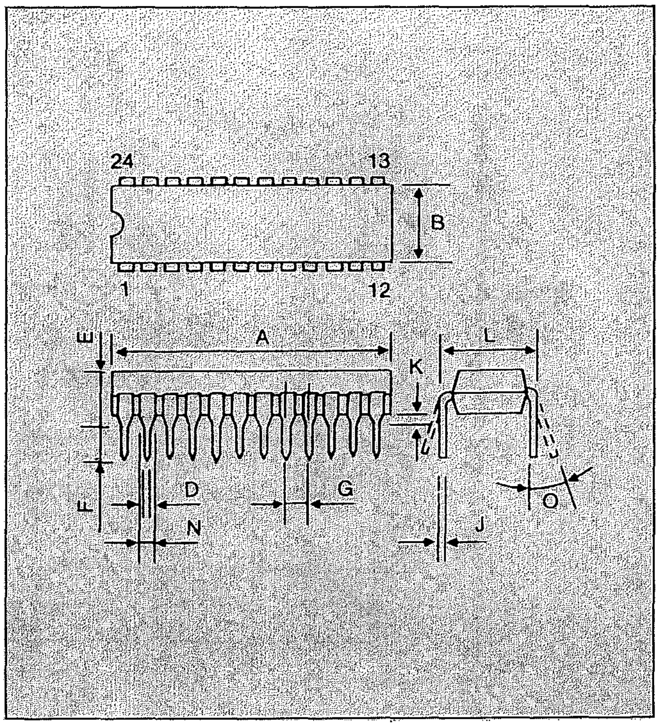
Play back Amp.

- Built in input select switch
- Built in equalizer control switch
- *Hixing output, for music selection*

Recording Amp.

- Built in ALC detector circuit
- Operating supply voltage range: Vcc = 4 ~ 13.5V

DIM	MILLIMETERS	
	MIN.	MAX.
A	–	22.80
B	–	6.50
D	0.31	0.61
E	–	5.00
F	2.50	–
G	1.78	
J	0.20	0.35
K	0.51	–
L	7.37	7.87
N	0.85	1.15
O	7°	

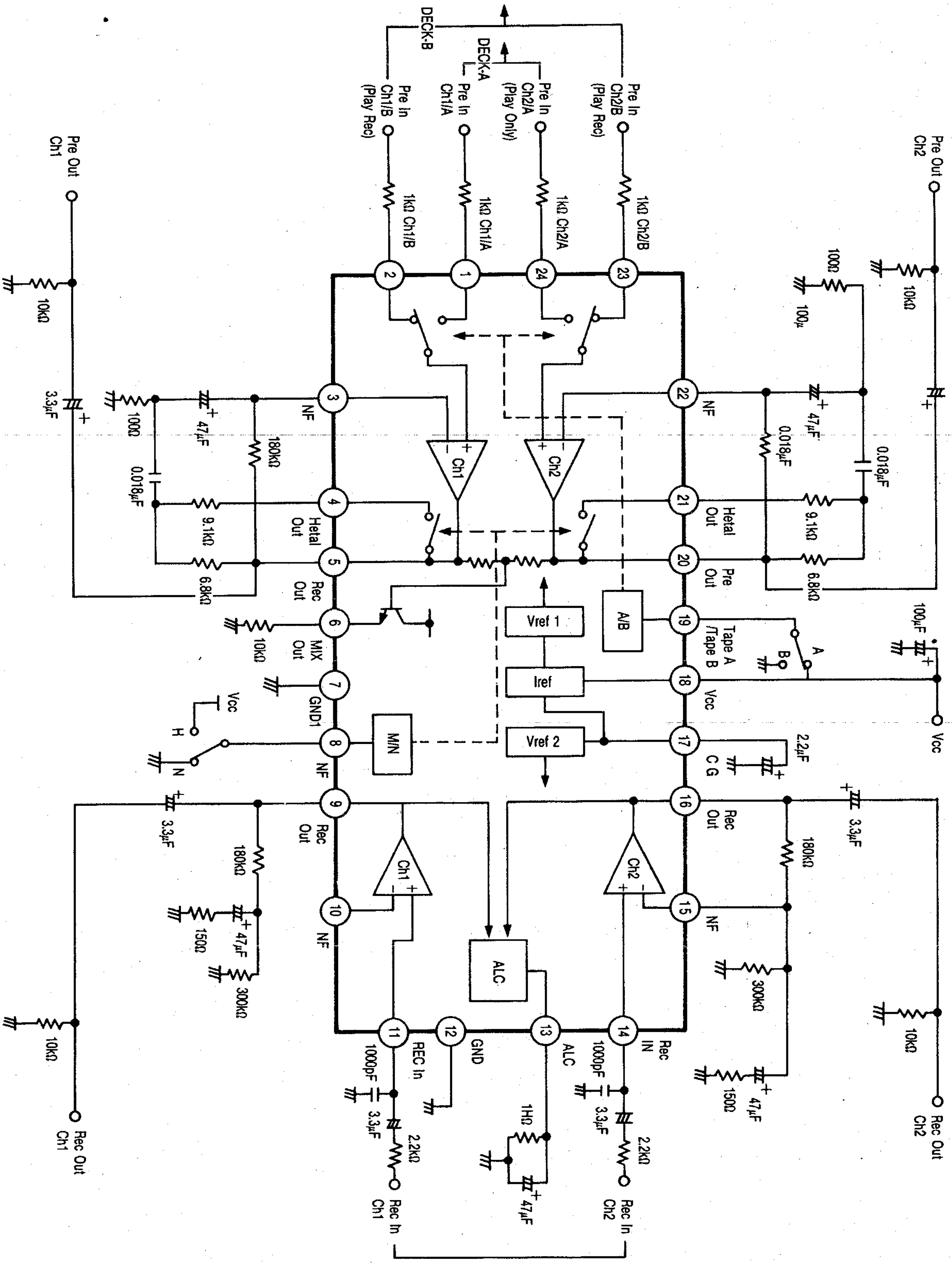


MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	Vcc	14.5	V
Power Dissipation	PD	1200 *	mW
Operating Temperatuer	Topr	−20 ~ 75	°C
Storage Temperatuer	Tstg	−55 ~ 150	°C

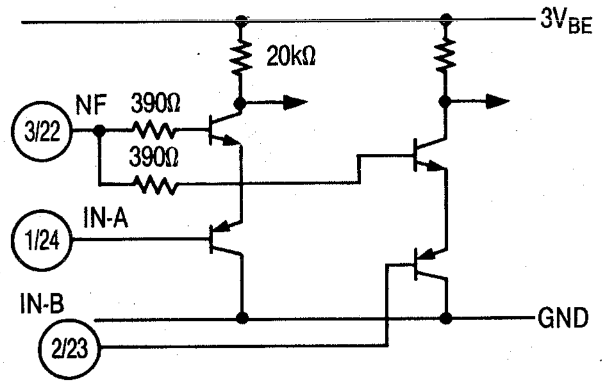
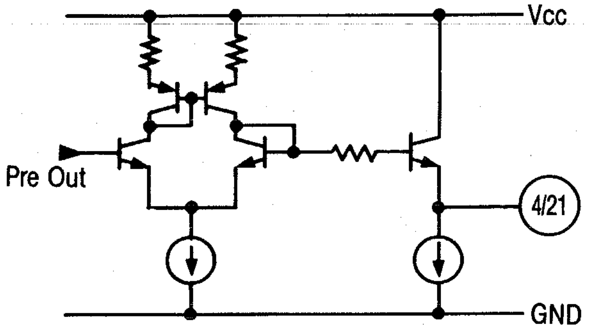
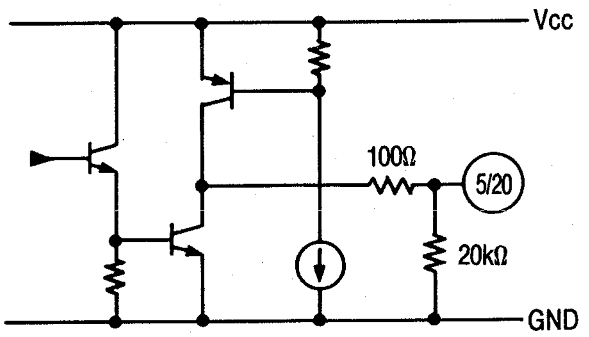
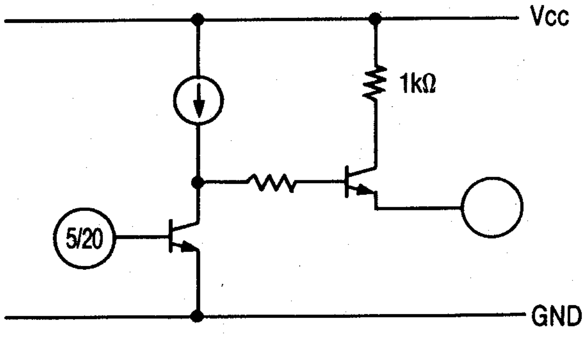
*Derated above Ta = 25°C in the proportion of 9.6mW

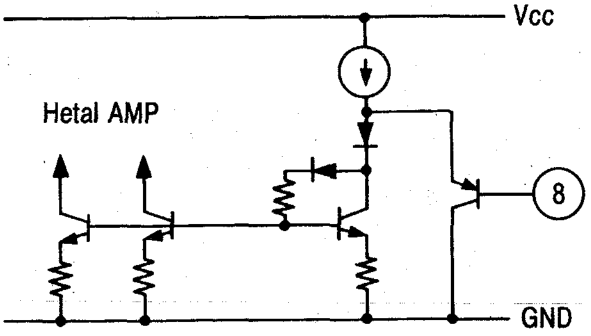
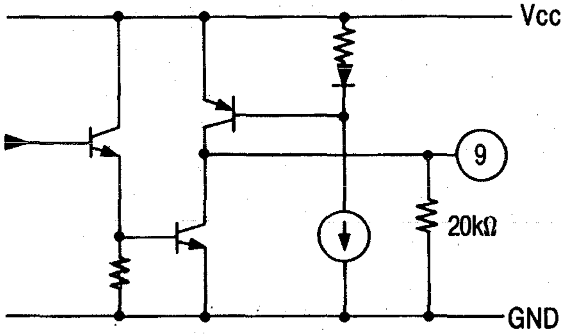
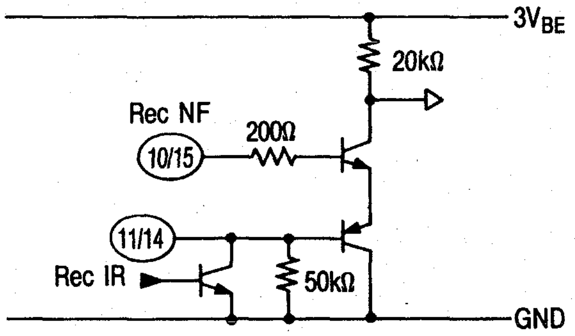
■ APPLICATION CIRCUIT

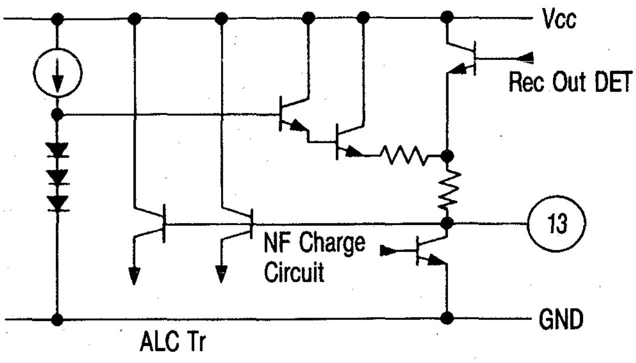
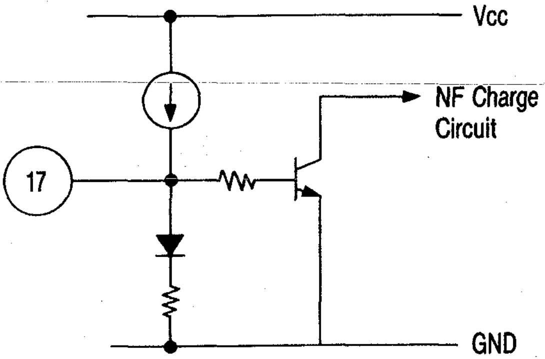
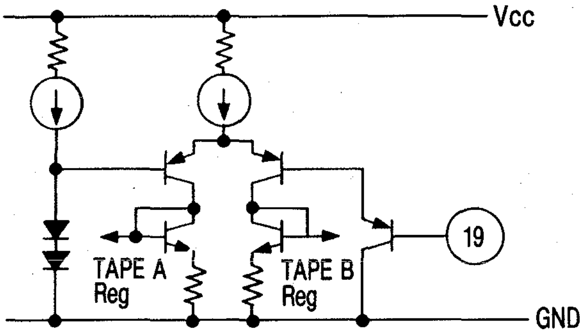


DECK-B
DECK-A
Pre In Ch1/B (Play Rec)
Pre In Ch1/A
Pre In Ch2/A (Play Only)
Pre In Ch2/B (Play Rec)
1kΩ Ch1/B
1kΩ Ch1/A
1kΩ Ch2/A
1kΩ Ch2/B
Pre Out Ch1
Pre Out Ch2
10kΩ
3.3μF
100Ω
47μF
180kΩ
0.018μF
9.1kΩ
6.8kΩ
100Ω
100μ
NF
Hetal Out
Pre Out
Rec Out
MIX Out
GND1
Vcc
H
N
M/N
Ch1
Ch2
Vref 1
Vref 2
Iref
A/B
Tape A /Tape B
A
B
100μF
C G
2.2μF
150Ω
300kΩ
ALC
REC In
GND
Rec IN
1000pF
2.2kΩ
1HΩ
Rec In Ch1
Rec In Ch2
Rec Out Ch1
Rec Out Ch2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

TERMINAL EXPLANATION

NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
1	TAPE A IN (Ch1)	Tape play back input (Play)	 3VBE 20kΩ NF 390Ω 3/22 390Ω IN-A 1/24 IN-B 2/23 GND
24	TAPE A IN (Ch1)		
2	TAPE B IN (Ch2)	Tape play back (Play/Rec)	
23	TAPE B IN (Ch2)		
3	PB NF (Ch1)	Tape play back NF	
22	PB NF (Ch2)		
4/21	Metal Out	Play back Amp. metal output	 Vcc Pre Out 4/21 GND
5	Pre Out (Ch1)	Play back Amp output	 Vcc 100Ω 5/20 20kΩ GND
20	Pre Out (Ch2)		
6	MIX OUT	Mixing output	 Vcc 1kΩ 5/20 GND

NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
7	GND	GND	
8	Metal/Normal SW	Change or switch for Metal mode and Normal mode.	 Vcc Hetal AMP 8 GND
9	Rec Out (Ch1)	Recording Amp. output	 Vcc 9 20kΩ GND
16	Rec Out (Ch2)		
10	Rec NF (Ch1)	Recording Amp. NF	 3V_{BE} 20kΩ Rec NF 200Ω 10/15 11/14 Rec IR 50kΩ GND
15	Rec NF (Ch2)		
11	Rec IN (Ch1)	Recording Amp. input	
14	Rec IN (Ch2)		
12	GND	GND	

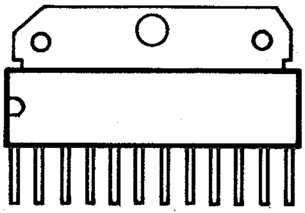
NO.	TERMINAL NAME	FUNCTION	EQUIVALENT CIRCUIT
13	ALC T.G.	Automatic level control (ALC) time constant terminal	 Vcc Rec Out DET 13 NF Charge Circuit GND ALC Tr
17	CG Det.	NF charge up circuit switching terminal	 Vcc NF Charge Circuit 17 GND
19	TAPE A/TAPE B SW	Play back Amp. input selector	 Vcc TAPE A Reg TAPE B Reg 19 GND

LOW FREQUENCY POWER AMPLIFIER

TA8207K is an audio power IC with built-in two channels developed for portable radio cassette tape recorder with power ON/OFF switch.
Because of the parts reduction and SIP (Single In-line Package), space merit is remarkable.
Thermal shut down protection circuit is built in.

- High Power
  : $P_{OUT}=2.5W/CH$ (Typ.)
  ($V_{CC}=9V$, $R_L=4\Omega$, f = 1kHz, THD = 10%)
  : $P_{OUT}=4.6W/CH$ (Typ.)
  ($V_{CC}=12V$, $R_L=4\Omega$, f = 1kHz, THD = 10%)
- Low Popping Noise at Power ON
- Small Quiescent Current
  : $I_{CCQ}=21mA$ (Typ.) ($V_{CC}=9V$, $V_{IN}=0$)
- Soft Clip
- Built-in Thermal Shut Down Protection Circuit
- Best for Supply Voltage 9V, 12V
- Operation Supply Voltage Range: $V_{CC}=6$ to 15V

Unit in mm



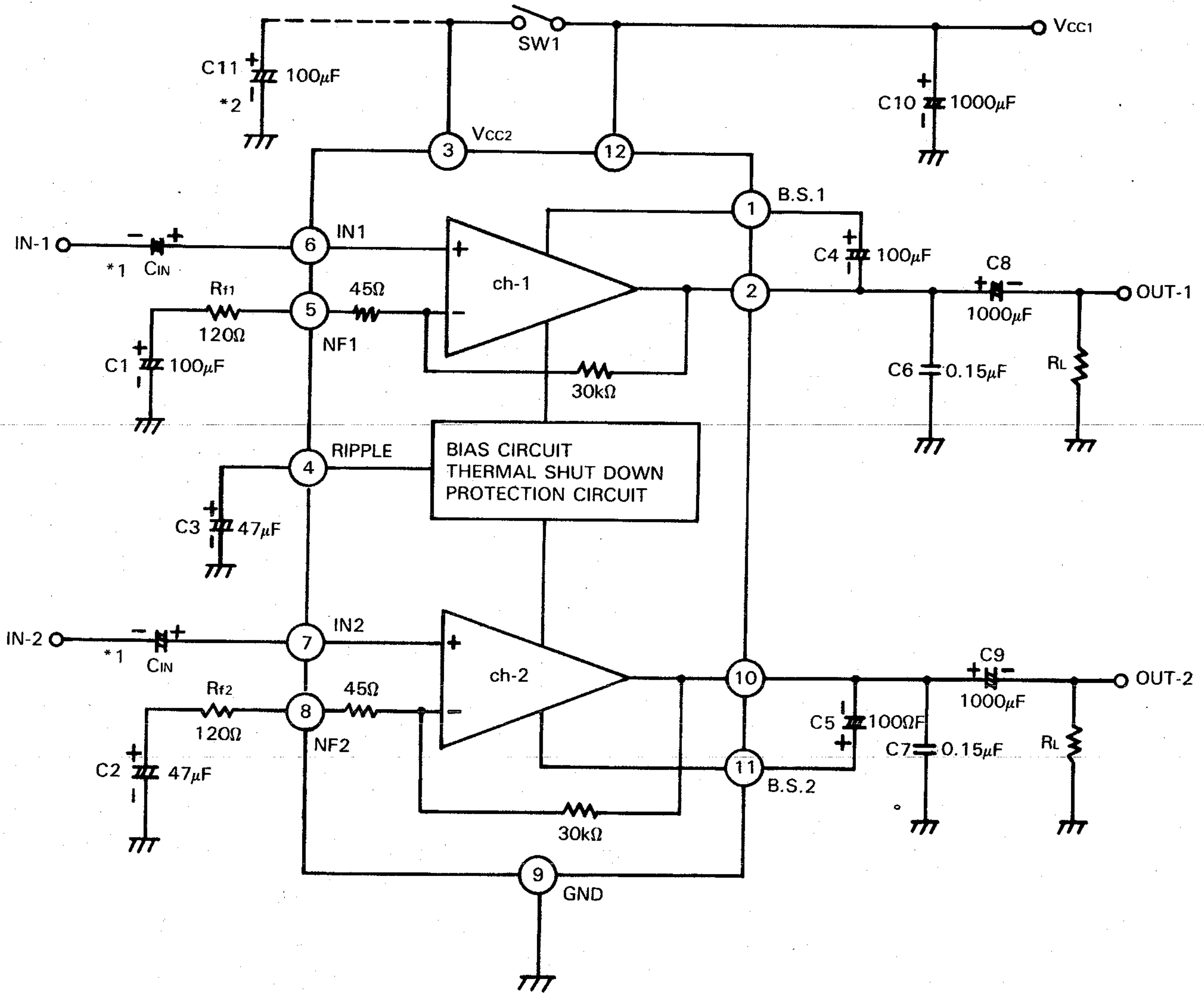
Package width and length do not include mold protrusion.
All owable mold protrusion is 0.15mm.

JEDEC	—
TOSHIBA	HSIP12-P-A

MAXIMUM RATINGS ($Ta=25°C$)

CHARACTERISTICS	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	20	V
Output Current (peak/ch)	Io (Peak)	2.5	A
Power Dissipation	P_D	12.5	mW
Operating Temperature	T_{opr}	−20～75	°C
Storage Temperature	T_{stg}	−55～150	°C

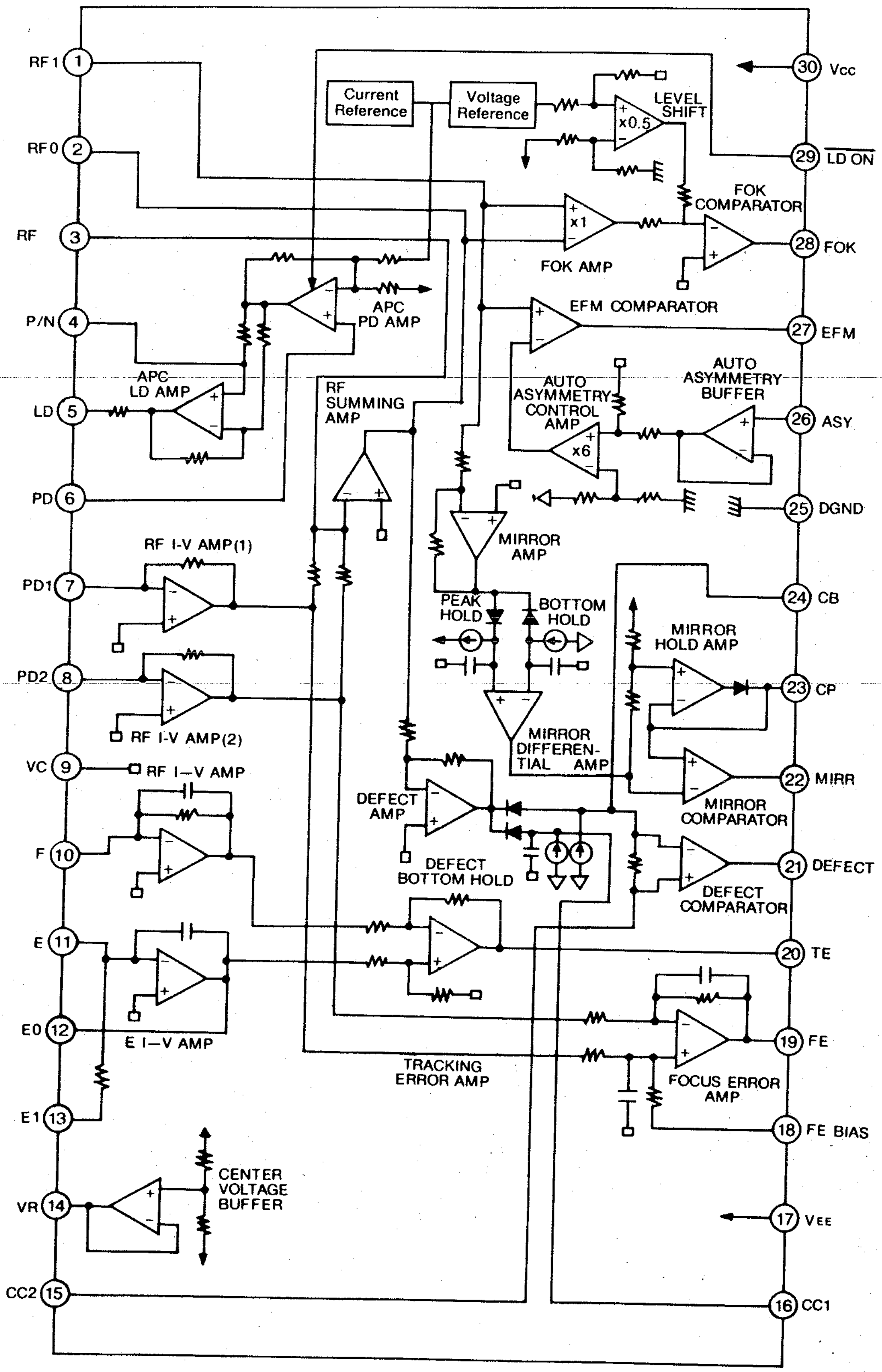
BLOCK DIAGRAM/TEST CIRCUIT


SW1
Vcc1
C11 100µF
*2
C10 1000µF
3
Vcc2
12
B.S.1
1
IN-1
*1 CIN
IN1
6
Rf1
120Ω
45Ω
5
NF1
C1 100µF
ch-1
2
C4 100µF
C8
1000µF
OUT-1
C6 0.15µF
RL
30kΩ
RIPPLE
4
BIAS CIRCUIT
THERMAL SHUT DOWN
PROTECTION CIRCUIT
C3 47µF
IN-2
*1 CIN
IN2
7
ch-2
10
C9
1000µF
OUT-2
Rf2
120Ω
45Ω
8
NF2
C2 47µF
C5 100ΩF
C7 0.15µF
RL
11
B.S.2
30kΩ
9
GND

*1 This IC can be used without coupling capacitor (CIN). If volume slide noise occurred by input offset voltage is undesirable, it needs to use the capacitor (CIN).

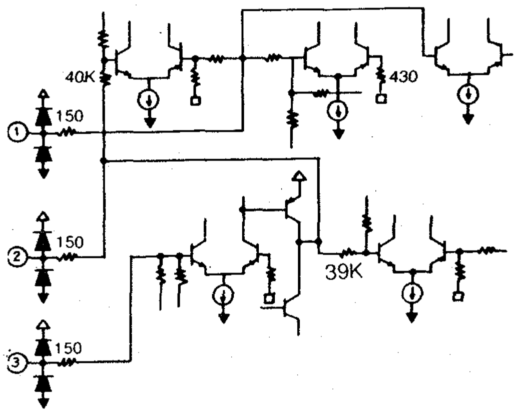
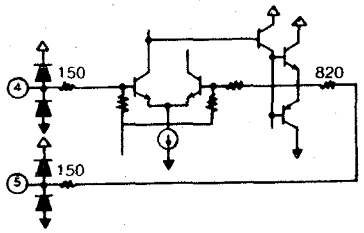
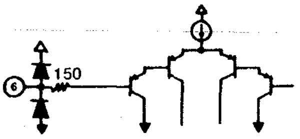
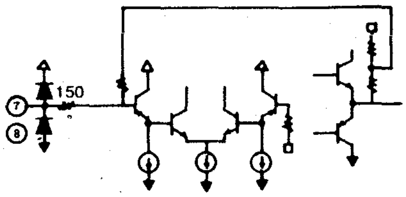
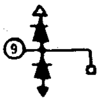
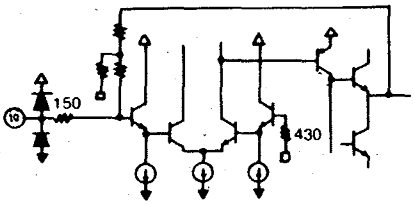
*2 The condenser between the pin ③ and the GND (C11) is for reducing pop noise when the power ON/OFF switch (SW1) is set to ON/OFF.

BLOCK DIAGRAM AND PIN CONFIGURATION 1. (TOP VIEW) CXA 1081M

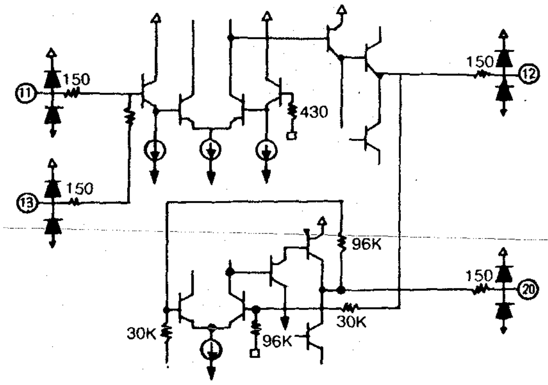
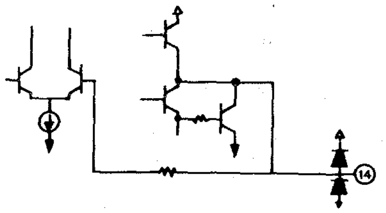
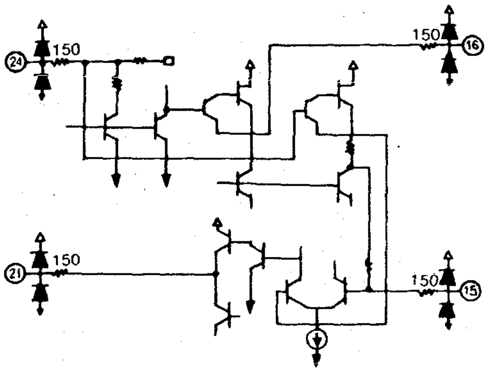
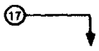
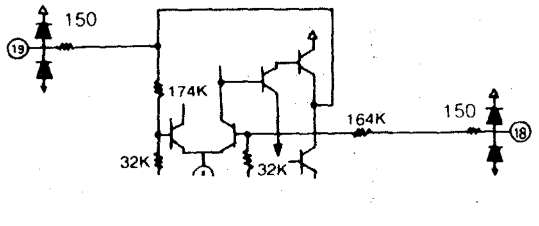

RF1 1
RF0 2
RF 3
P/N 4
LD 5
PD 6
PD1 7
PD2 8
VC 9
F 10
E 11
E0 12
E1 13
VR 14
CC2 15
16 CC1
17 VEE
18 FE BIAS
19 FE
20 TE
21 DEFECT
22 MIRR
23 CP
24 CB
25 DGND
26 ASY
27 EFM
28 FOK
29 LD ON
30 Vcc
Current Reference
Voltage Reference
LEVEL SHIFT
x0.5
FOK COMPARATOR
x1
FOK AMP
EFM COMPARATOR
APC PD AMP
APC LD AMP
RF SUMMING AMP
AUTO ASYMMETRY CONTROL AMP
x6
AUTO ASYMMETRY BUFFER
MIRROR AMP
PEAK HOLD
BOTTOM HOLD
MIRROR HOLD AMP
MIRROR DIFFEREN-TIAL AMP
MIRROR COMPARATOR
RF I-V AMP(1)
RF I-V AMP(2)
RF I–V AMP
DEFECT AMP
DEFECT BOTTOM HOLD
DEFECT COMPARATOR
E I–V AMP
TRACKING ERROR AMP
FOCUS ERROR AMP
CENTER VOLTAGE BUFFER

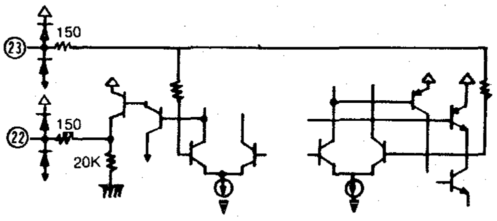
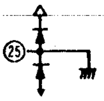
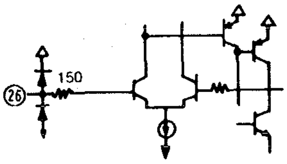
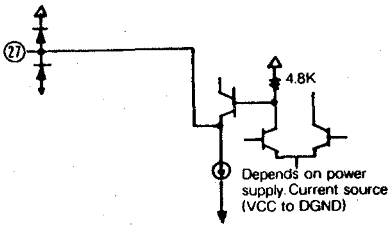
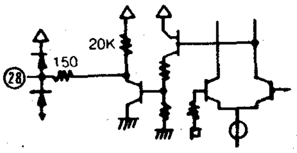
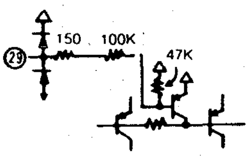
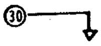
Pin Description and Equivalent Circuit (CXA 1081M)

$V_{CC} = 2.5V$, $V_{EE} = D_{GND} = -2.5V$, $VC = GND$

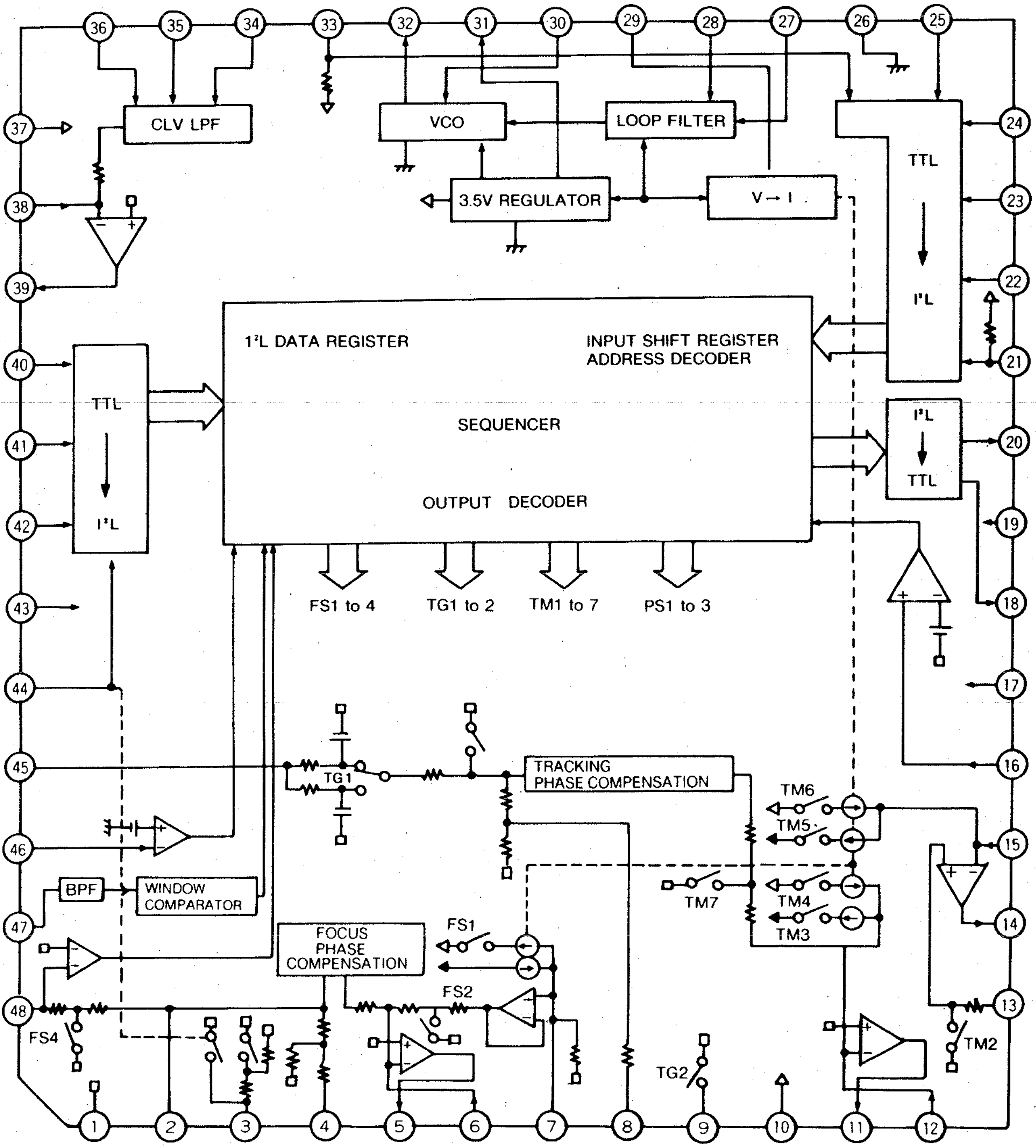
No.	Symbol	I/O	DC voltage (V)	Equivalent circuit	Description
1	RFI	I	0		Input pin with coupling capacitor where the RF summing apmplifier output is connected.
2	RFO	O	V_{RFO}		Output pin of RF summing amplifier and check point of the eye pattern.
3	RF−	I	0		Feedback input pin of the RF summing amplifier.
4	P/N	I	0 (VC)		Switching pin of the LD P-sub/N-sub (DC voltage:at N-sub)
5	LD	O	−1.8		Output pin of the *APC DC amplifier DC voltage:at N-sub and pin 6 open
6	PD	I	0		Input pin of the *APC PD amplifier (DC voltage:Open)
7	PD1	I	0		Inversion input pin of the RF-I-V amplifier(1); with the pin photo diode of A and C connected
8	PD2	I	0		Inversion input pin of the RF I-V amplifier(2); with the pin photo diode of B and D connected
9	VC	—	0		For dual power supply: GND For single power supply: VR (pin 14)
10	F	I	0		Inversion input pin of the F I-V amplifier with the pin photo diode of F connected

* APC: Automatic Power Control

No.	Symbol	I/O	DC voltage (V)	Equivalent circuit	Description
11	E	I	0	 ⑪ 150 430 150 ⑫ ⑬ 150 96K 150 ⑳ 30K 96K 30K	Inversion input pin of the E I-V amplifier; with the pin photo diode of E connected
12	EO	O	0		Output pin of the E I-V amplifier
13	EI	I	0		Feedback input pin of the E I-V amplifier For gain adjustment of the E I-V amplifier
20	TE	O	V_{TEO}		Output pin of the tracking error amplifier
14	VR	O	V_{CVO}		Output pin of $(V_{CC}+V_{EE})/2$ DC voltage
15	CC2	I	1.0		Input pin (with coupling capacitor) where the Defect bottom-hold output is connecting
16	CC1	O	1.2		Output pin of the Defect bottom hold
21	DEFECT	O	V_{DFCTL}		Output pin of the defect comparator (DC voltage: at 10kΩ load)
24	CB	I	0		Connection pin of the Defect bottom-hold capacitor
17	V_{EE}	—	−2.5		For dual power supply Negative power supply For single power supply:GND
18	FE BIAS	I	0		Non inverted Bias Pin of focus error amplifier For CMR (Common Mode Rejection) adjustment of the focus error amplifier

No.	Symbol	I/O	DC voltage (V)	Equivalent circuit	Description
22	MIRR	O	V_{MIRL}	 ㉓ 150 ㉒ 150 20K	Output pin of the MIRR comparator (DC voltag: at 10kΩ load)
23	CP	I	−1.3		Connecting of MIRR hold capacitor Non inverted input pin of MIRR comparator
25	DGND	—	−1.5		For dual power supply: GND For single power supply: GND (V_{EE})
26	ASY	I	—		Input pin of the auto asymmetry control amplifier
27	EFM	O	V_{EFMH}	 ㉗ 4.8K Depends on power supply. Current source (VCC to DGND)	Output pin of the EFM comparator (DC voltage: at 10kΩ load)
28	FOK	O	V_{FOKL}		Output pin of the FOK comparator (DC voltage: at 10kΩ load)
29	LD ON	I	−2.5 (DGND)	 ㉙ 150 100K 47K	Switching pin of the LD ON/OFF (DC voltage: For LD on)
30	V_{CC}	—	2.5		Positive power supply

CXA 1082AQ
BLOCK DIAGRAM



CLV LPF
VCO
LOOP FILTER
3.5V REGULATOR
V→I
TTL
I²L
I²L DATA REGISTER
INPUT SHIFT REGISTER
ADDRESS DECODER
SEQUENCER
OUTPUT DECODER
FS1 to 4
TG1 to 2
TM1 to 7
PS1 to 3
TG1
TRACKING PHASE COMPENSATION
TM6
TM5
TM7
TM4
TM3
BPF
WINDOW COMPARATOR
FOCUS PHASE COMPENSATION
FS1
FS2
FS4
TG2
TM2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
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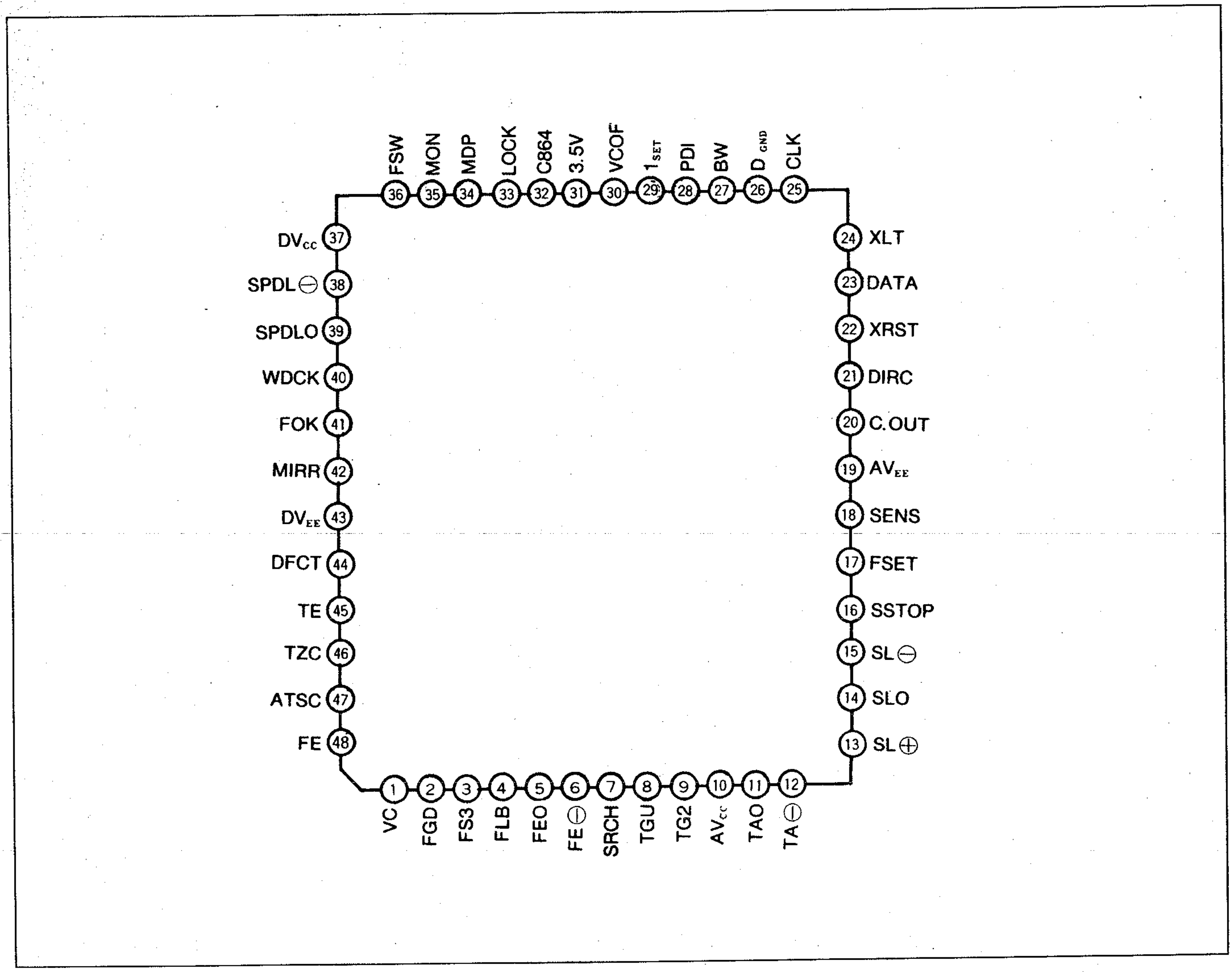
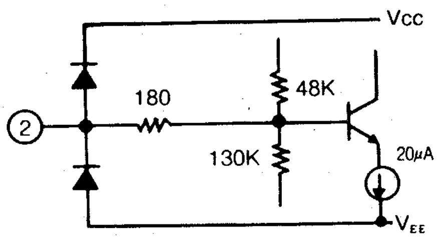
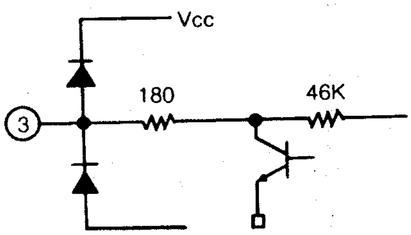
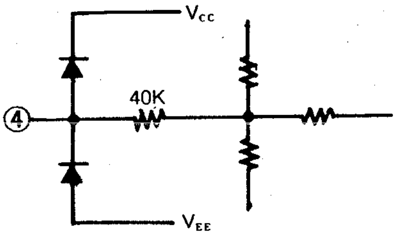
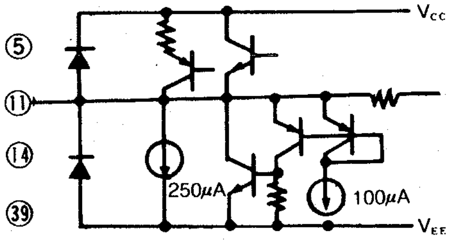
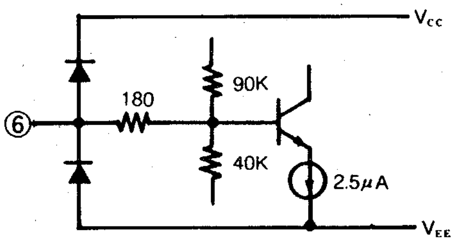
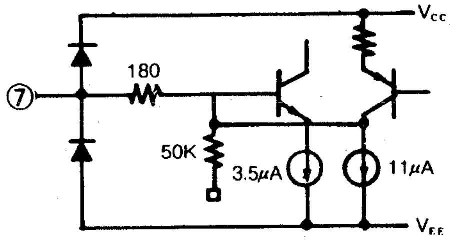
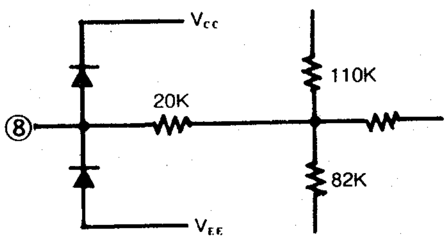
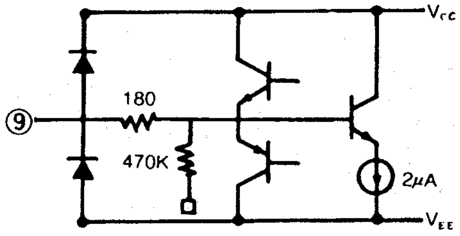
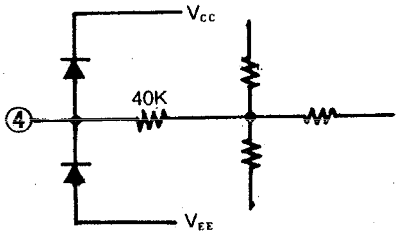
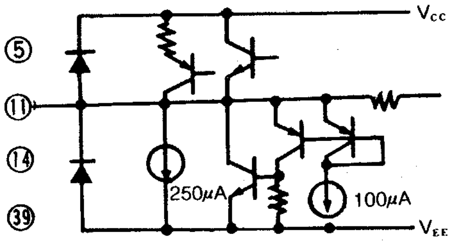
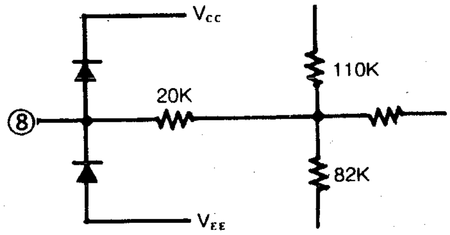
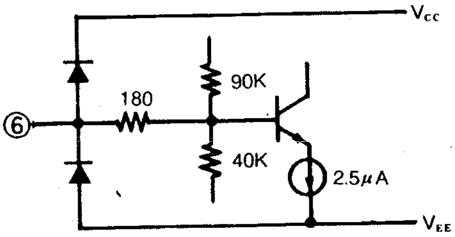
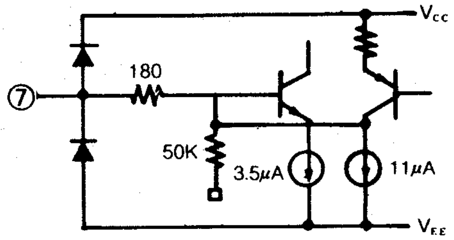
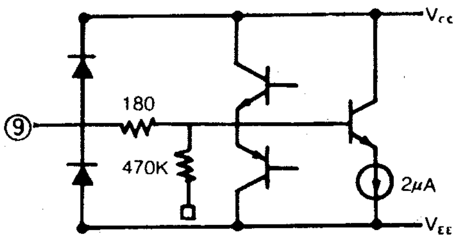
Pin Configuration CXA 1082AQ

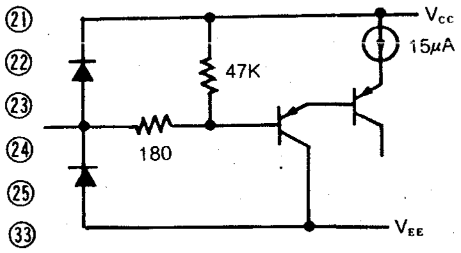
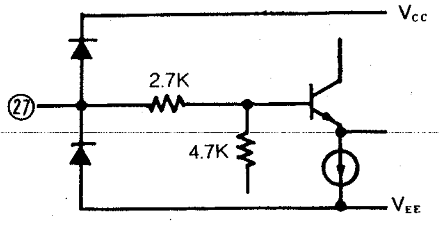
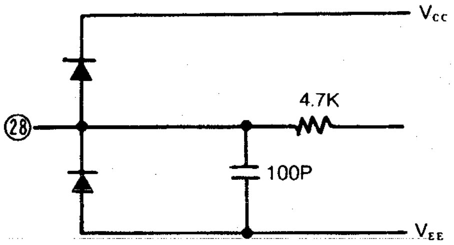
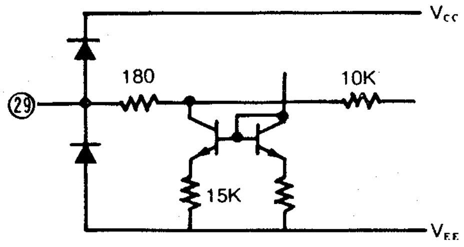
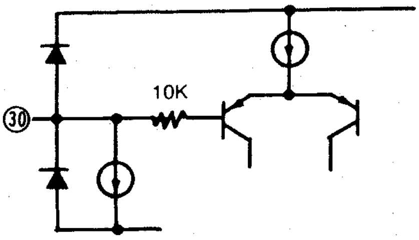
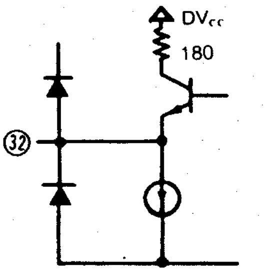

FSW 36
MON 35
MDP 34
LOCK 33
C864 32
3.5V 31
VCOF 30
I SET 29
PDI 28
BW 27
D GND 26
CLK 25
DVcc 37
SPDL⊖ 38
SPDLO 39
WDCK 40
FOK 41
MIRR 42
DVEE 43
DFCT 44
TE 45
TZC 46
ATSC 47
FE 48
24 XLT
23 DATA
22 XRST
21 DIRC
20 C.OUT
19 AVEE
18 SENS
17 FSET
16 SSTOP
15 SL⊖
14 SLO
13 SL⊕
1 VC
2 FGD
3 FS3
4 FLB
5 FEO
6 FE⊖
7 SRCH
8 TGU
9 TG2
10 AVcc
11 TAO
12 TA⊖

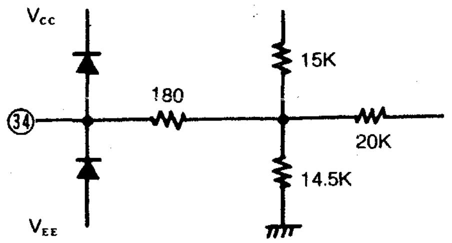
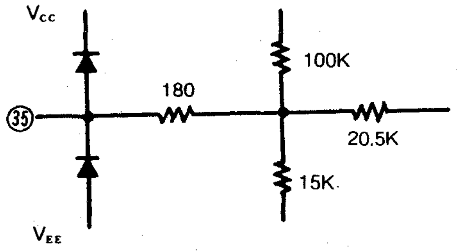
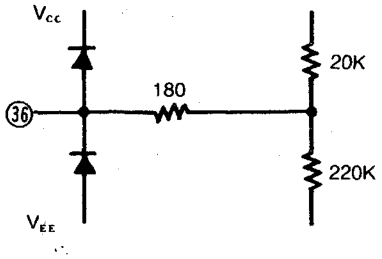
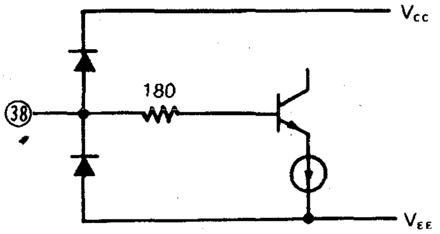
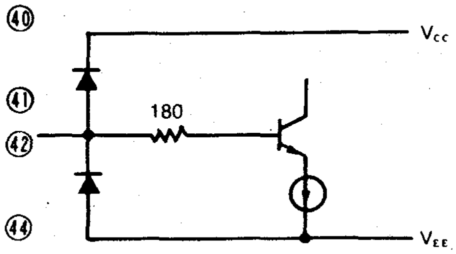
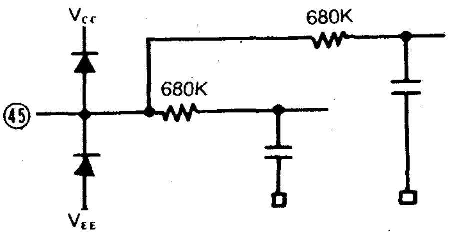
Pin Description

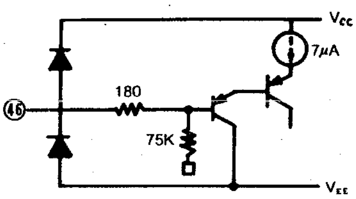
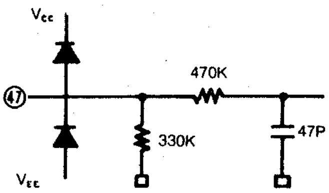
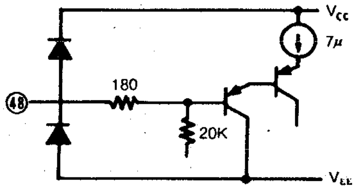
No.	Symbol	Equivalent Circuit	Description
2	FGD	 Vcc 180 48K 130K 20μA VEE 2	Connect a capacitor between this pin and pin 3(9) to reduce the high-frequency gain
3	FS3	 Vcc 180 46K 3	The high-frequency gain of the focus servo can be changed by switching FS3 ON or OFF.

No.	Symbol	Equivalent Circuit	Description
4	FLB	 Vcc 40K ④ VEE	Time constant external pin for rising low band-width of the focus servo.
5	FEO	 Vcc ⑤ ⑪ ⑭ ㊴ 250μA 100μA VEE	Focus drive output
11	TAO		Tracking drive output
14	SLO		Sied drive output
39	SPDLO		Spindle drive output
6	FE-	 Vcc 90K 180 ⑥ 40K 2.5μA VEE	Inverse input pin for the focus amplifier.
7	SRCH	 Vcc 180 ⑦ 50K 3.5μA 11μA VEE	Pin for providing a time constant to generate the focus search waveform
8	TGU	 Vcc 110K 20K ⑧ 82K VEE	Pin for providing a time constant to switch the tracking gain of high-frequency
9	TG2	 Vcc 180 ⑨ 470K 2μA VEE	Pin for providing a time constant to change the high-frequency tracking gain.

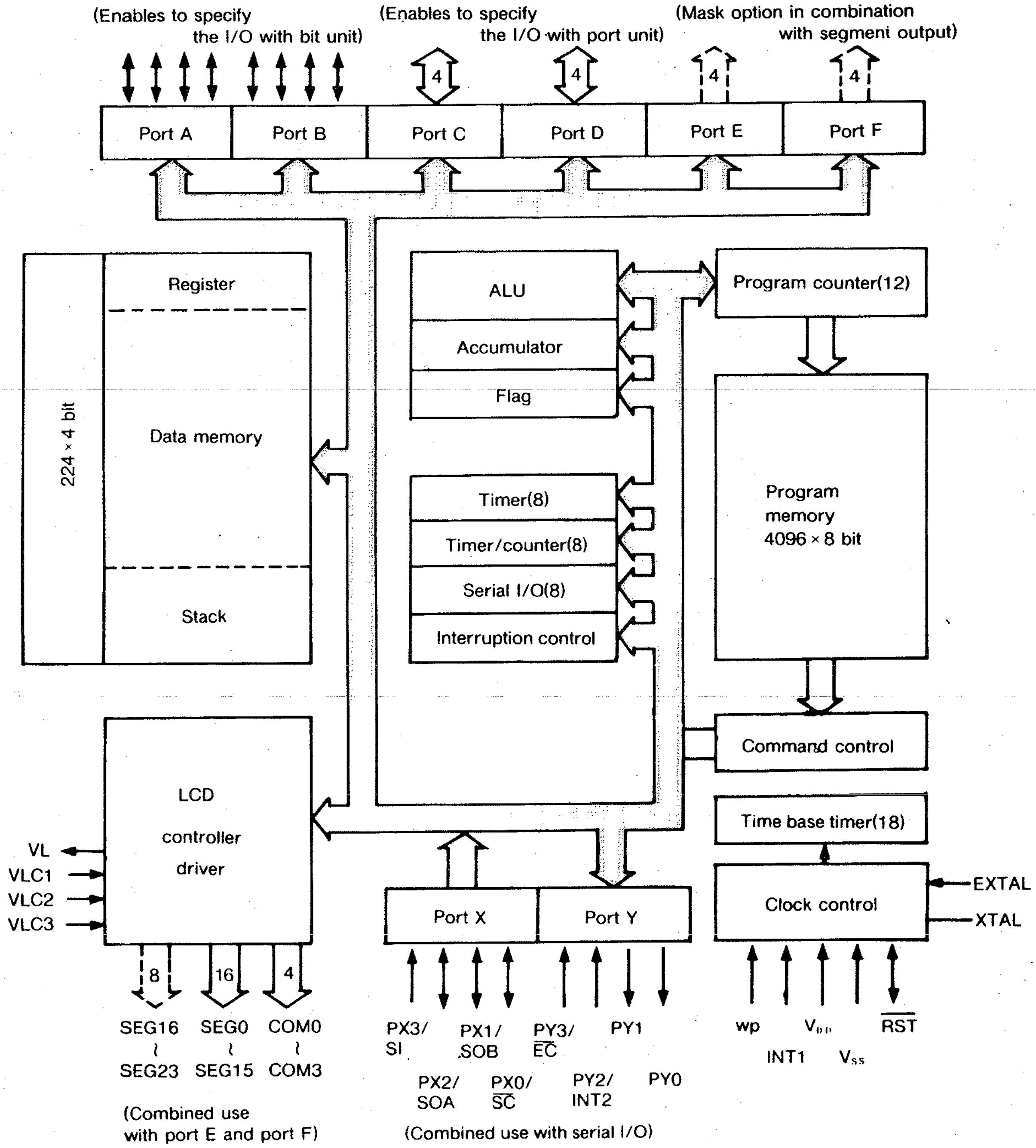
No.	Symbol	Equivalent Circuit	Description
12	TA−	 Vcc ④ 40K VEE	Inverse input pin for the tracking amplifier.
13	SL+	 Vcc ⑤ ⑪ ⑭ ㊴ 250μA 100μA VEE	Non-inverse input pin for the sied amplifier.
15	SL−	 Vcc 110K 20K ⑧ 82K VEE	Inverse input pin for the sied amplifier.
16	SSTOP	 Vcc 90K 180 ⑥ 40K 2.5μA VEE	Pin for detecting a signal for the ON/OFF limit switch of the innermost part of the disc.
17	FEST	 Vcc 180 ⑦ 50K 3.5μA 11μA VEE	Pin for setting the peak frequency of the focus, tracking phase compensation and f0 of the CLV LPF.
18	SENS	 Vcc 180 ⑨ 470K 2μA VEE	Pin to output FZC, AS, TZC, SSTOP and BUSY by command from CPU.
20	C. OUT		Track number count signal output

No.	Symbol	Equivalent Circuit	Description
21	DIRC	 ㉑ ㉒ ㉓ ㉔ ㉕ ㉝ Vcc 15μA 47K 180 VEE	Pin for one-track jump Contains a 47kΩ pull-up resistor.
22	XRST		Reset input pin, reset at "L"
23	DATA		Serial data input from CPU
24	XLT		Latch input from CPU
25	CLK		Serial data transfer clock input from CPU
33	LOCK		Pin for the operation of the sled runaway prevention circuit at "L" Contains a 47kΩ pull-up resistor.
27	BW	 Vcc 2.7K ㉗ 4.7K VEE	Pin for providing a time constant for the loop filter.
28	PDI	 Vcc 4.7K ㉘ 100P VEE	Input pin for the CX23035/CXD 1135 phase comparator output PDO.
29	ISET	 Vcc 180 10K ㉙ 15K VEE	Current is input, determining the peaks of focus search, track jump, and sled kick.
30	VCOF		The free-running frequency of VCO is almost proportional to the resistance value between this pin and pin 31(37).
32	C864		Output pin of 8.64 MHz VCO.

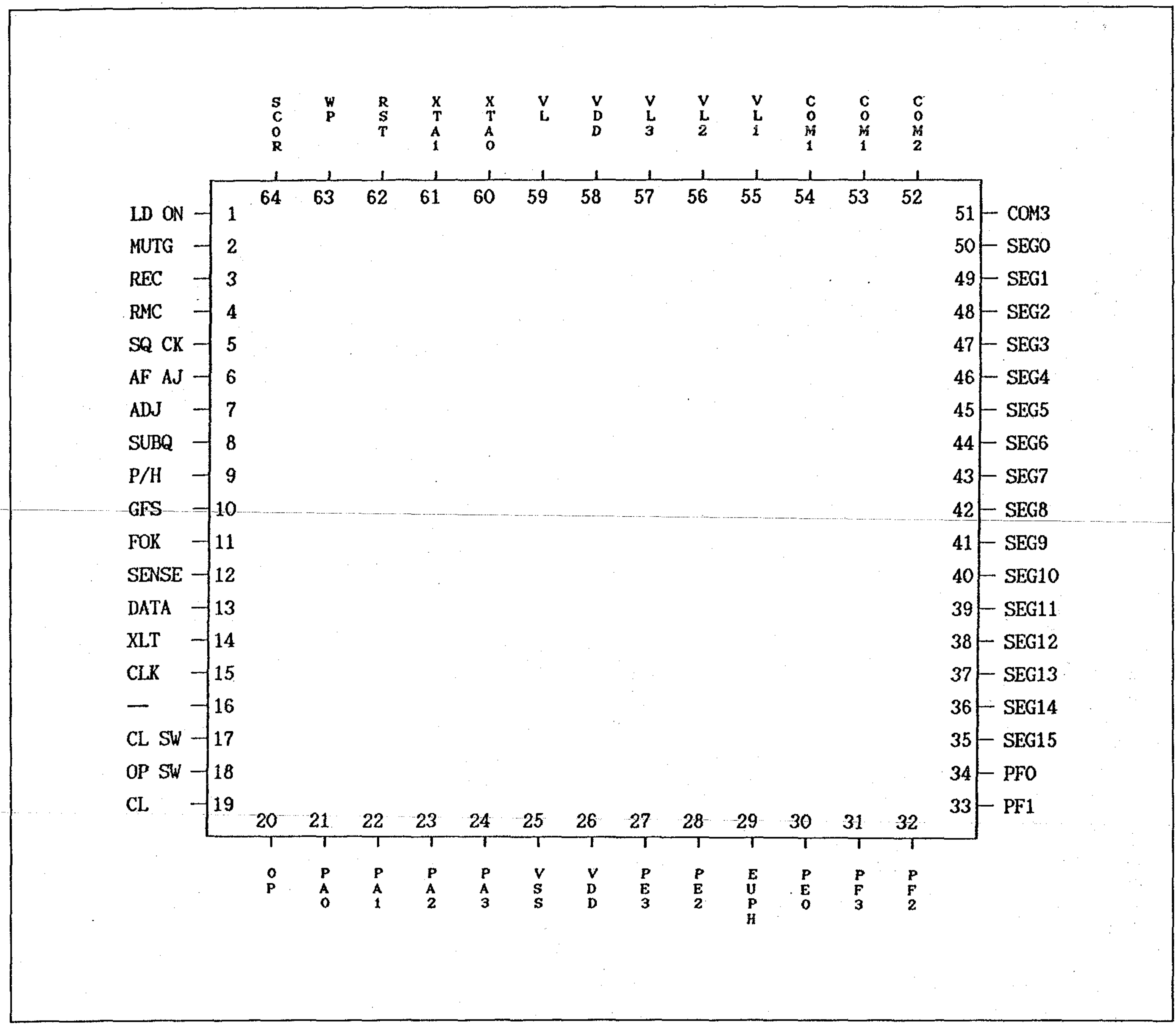
No.	Symbol	Equivalent Circuit	Description
34	MDP	 Vcc 15K 180 34 20K 14.5K VEE	Pin for connecting the CX23035/ CXD 1135 MDP pin
35	MON	 Vcc 100K 180 35 20.5K 15K VEE	Pin for connecting the CX/23035/ CXD 1135 MON pin
36	FSW	 Vcc 20K 180 36 220K VEE	Pin for providing an external LPF time constant of the CLV servo error signal.
38	SPDL–	 Vcc 180 38 VEE	Inverse input pin for the spindle drive amplifier.
40 41 42 44	WDCK FOK MIRR DFCT	 40 Vcc 41 180 42 44 VEE	Clock input for auto sequence, usually 88.2 KHz is input FOK signal input pin Mirror signal input pin Defect signal input pin for the operation of the defect countermeasure circuit at "H"
45	TE	 Vcc 680K 680K 45 VEE	Input pin for tracking error signals.

No.	Symbol	Equivalent Circuit	Description
46	TZC	 Vcc 7μA 180 46 75K VEE	Input pin for the zero-cross tracking comparator.
47′	ATSC	 Vcc 470K 47 330K 47P VEE	Input pin of the window comparator for ATSC detection.
48	FE	 Vcc 7μ 180 48 20K VEE	Input pin for focus error signals.

CXP-5024 Block Diagram


(Enables to specify the I/O with bit unit)
(Enables to specify the I/O with port unit)
(Mask option in combination with segment output)
4
4
4
4
Port A
Port B
Port C
Port D
Port E
Port F
224 × 4 bit
Register
Data memory
Stack
ALU
Accumulator
Flag
Timer(8)
Timer/counter(8)
Serial I/O(8)
Interruption control
Program counter(12)
Program memory 4096 × 8 bit
Command control
Time base timer(18)
Clock control
EXTAL
XTAL
LCD controller driver
VL
VLC1
VLC2
VLC3
8
16
4
SEG16 ~ SEG23
SEG0 ~ SEG15
COM0 ~ COM3
(Combined use with port E and port F)
Port X
Port Y
PX3/ SI
PX2/ SOA
PX1/ SOB
PX0/ $\overline{SC}$
PY3/ $\overline{EC}$
PY2/ INT2
PY1
PY0
(Combined use with serial I/O)
wp
INT1
V_{DD}
V_{SS}
$\overline{RST}$

PIN CONFIGURATION DIAGRAM (TOP VIEW)

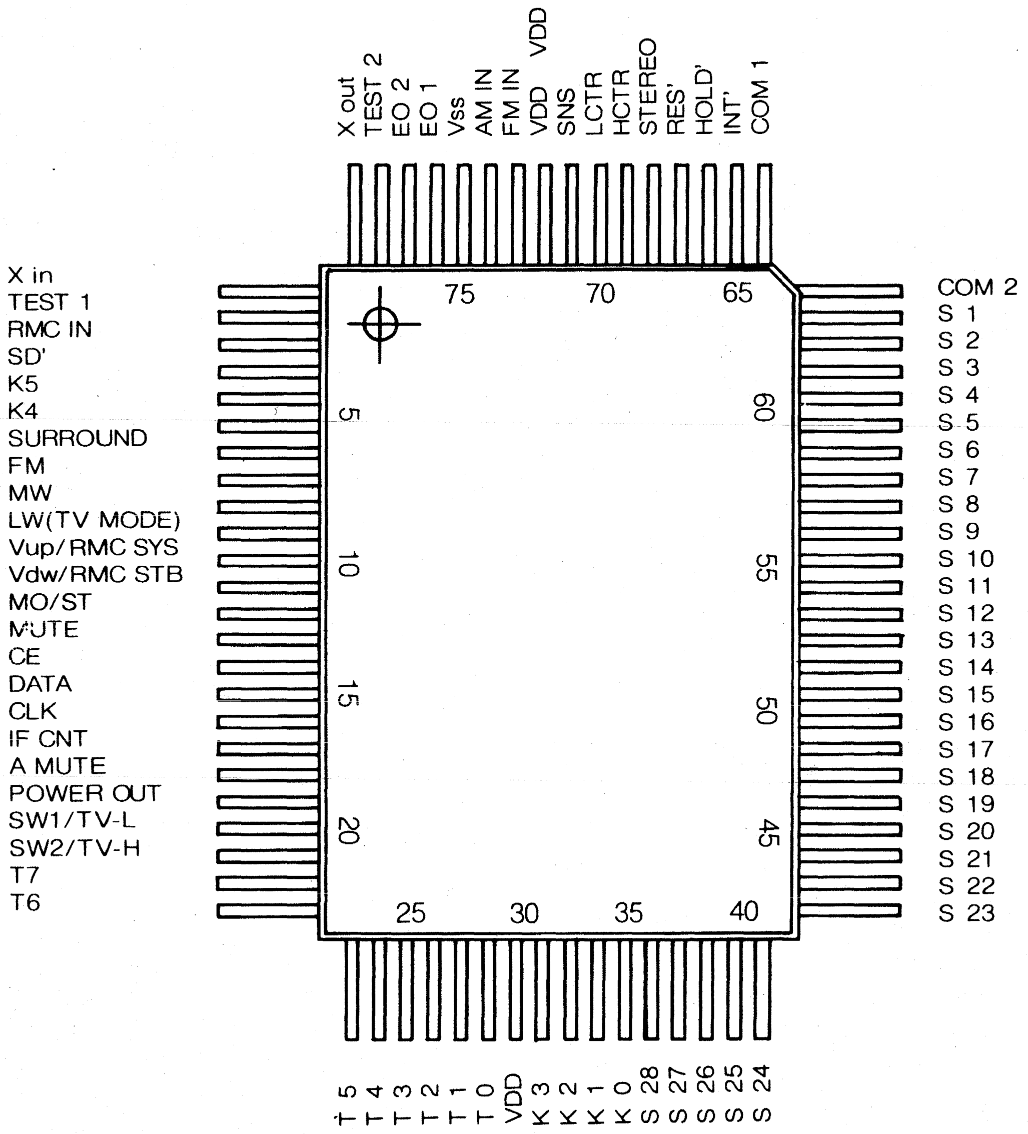

SCOR
WP
RST
XTA1
XTAO
VL
VDD
VL3
VL2
VL1
COM1
COM1
COM2
64
63
62
61
60
59
58
57
56
55
54
53
52
LD ON 1
MUTG 2
REC 3
RMC 4
SQ CK 5
AF AJ 6
ADJ 7
SUBQ 8
P/H 9
GFS 10
FOK 11
SENSE 12
DATA 13
XLT 14
CLK 15
— 16
CL SW 17
OP SW 18
CL 19
51 COM3
50 SEG0
49 SEG1
48 SEG2
47 SEG3
46 SEG4
45 SEG5
44 SEG6
43 SEG7
42 SEG8
41 SEG9
40 SEG10
39 SEG11
38 SEG12
37 SEG13
36 SEG14
35 SEG15
34 PFO
33 PF1
20
21
22
23
24
25
26
27
28
29
30
31
32
OP
PAO
PA1
PA2
PA3
VSS
VDD
PE3
PE2
EUPH
PEO
PF3
PF2

* CXP5024 MAP

1. MAP

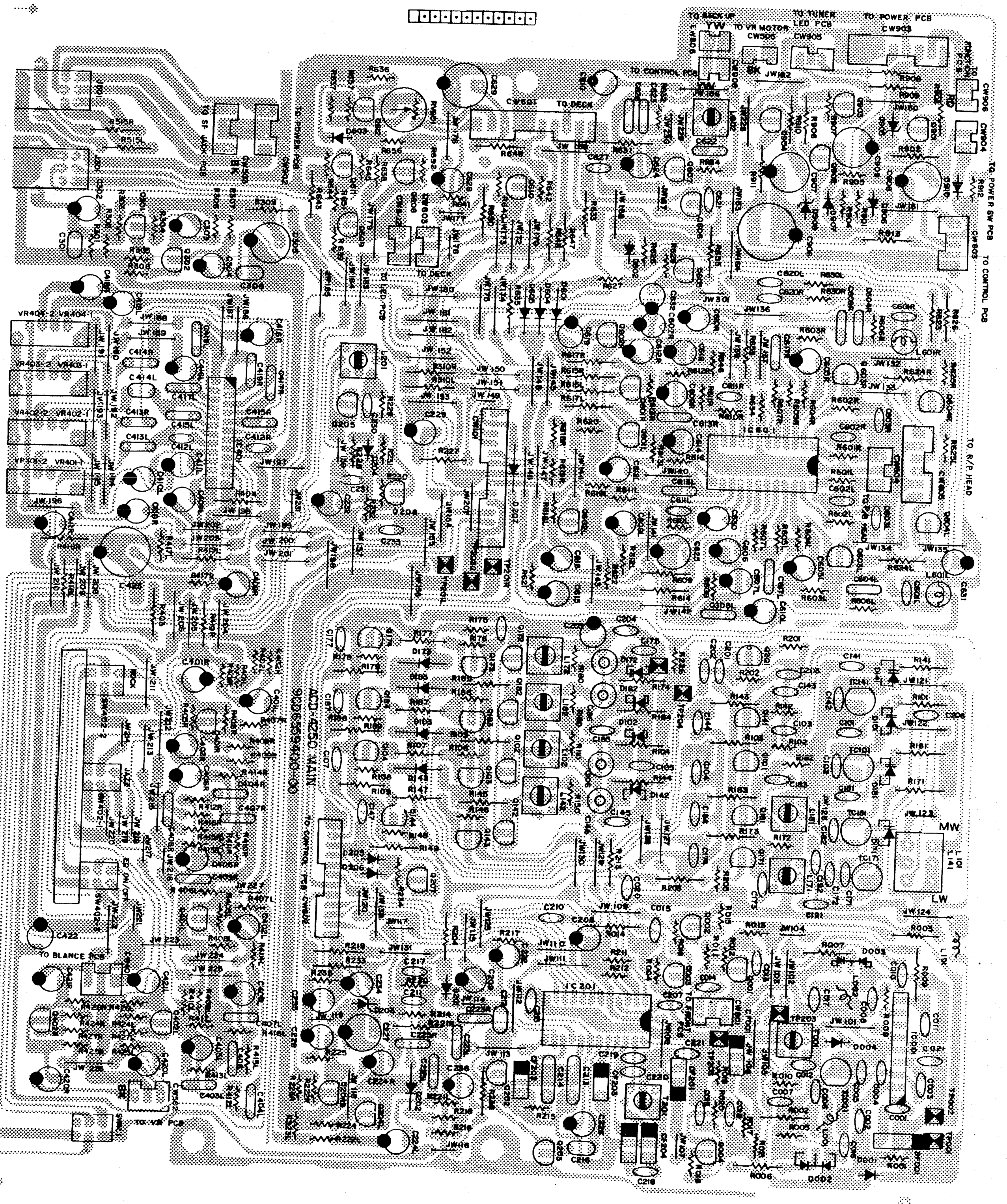
1. LD ON
2. MUTG
3. REC
4. RMC
5. SQ CK
6. AF AJ
7. ADJ
8. SUBQ
9. P/H
10. GFS
11. FOK
12. SENSE
13. DATA
14. XLT
15. CLK
16. —
17. CL SW
18. OP SW
19. CL
20. OP
21. PAO
22. PA1
23. PA2
24. PA3
25. VSS
26. VDD
27. PE3
28. PE2
29. EUPH
30. PEO
31. PF3
32. PF2
33. PF1
34. PFO
35. SEG 15
36. SEG 14
37. SEG 13
38. SEG 12
39. SEG 11
40. SEG 10
41. SEG 9
42. SEG 8
43. SEG 7
44. SEG 6
45. SEG 5
46. SEG 4
47. SEG 3
48. SEG 2
49. SEG 1
50. SEG 0
51. COM 3
52. COM 2
53. COM 1
54. COM 0
55. VL 1
56. VL 2
57. VL 3
58. VDD
59. VL
60. XTAO
61. XTA
62. RST
63. WP
64. SCOR

LC-7230


X out
TEST 2
EO 2
EO 1
Vss
AM IN
FM IN
VDD
VDD
SNS
LCTR
HCTR
STEREO
RES'
HOLD'
INT'
COM 1
X in
TEST 1
RMC IN
SD'
K5
K4
SURROUND
FM
MW
LW(TV MODE)
Vup/RMC SYS
Vdw/RMC STB
MO/ST
MUTE
CE
DATA
CLK
IF CNT
A MUTE
POWER OUT
SW1/TV-L
SW2/TV-H
T7
T6
COM 2
S 1
S 2
S 3
S 4
S 5
S 6
S 7
S 8
S 9
S 10
S 11
S 12
S 13
S 14
S 15
S 16
S 17
S 18
S 19
S 20
S 21
S 22
S 23
T 5
T 4
T 3
T 2
T 1
T 0
VDD
K 3
K 2
K 1
K 0
S 28
S 27
S 26
S 25
S 24
75
70
65
5
60
10
55
15
50
20
45
25
30
35
40

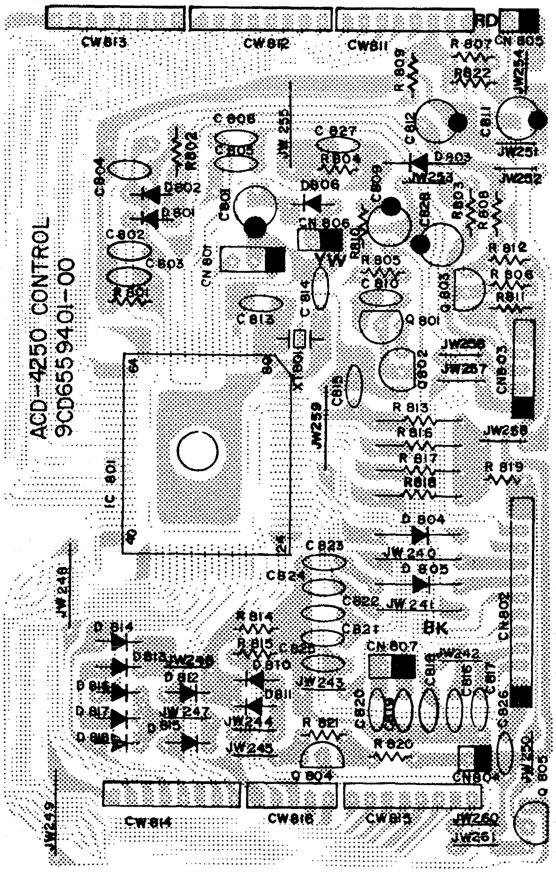
5. ELECTRICAL PARTS LOCATIONS

1) MAIN PCB

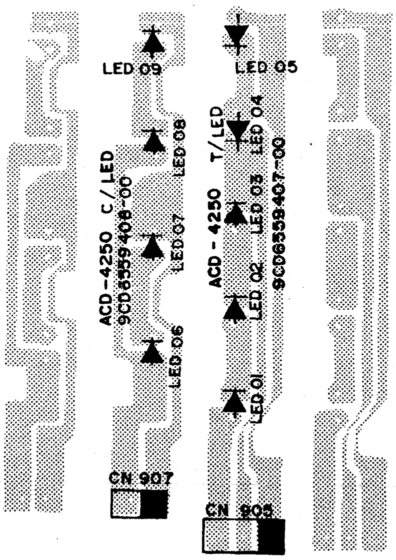


TO BACK UP
TO VR MOTOR
TO TUNER LED PCB
TO POWER PCB
TO CONTROL PCB
TO DECK
TO POWER SW PCB
TO R/P HEAD
TO BLANCE PCB
TO VR PCB
ACD-R250 MAIN
MW
LW
IC601
IC201

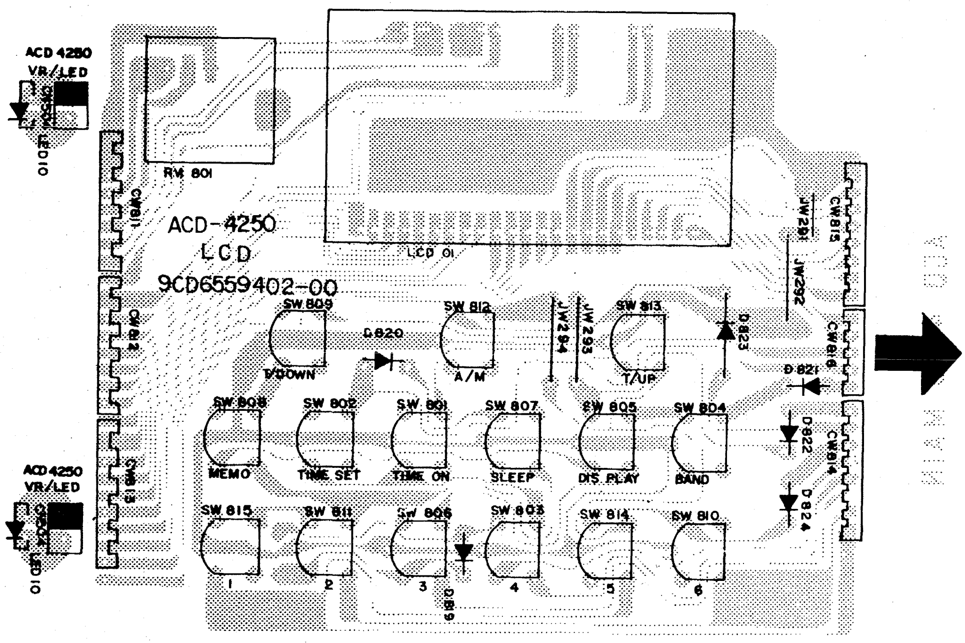
2) TUNER CONTROL PCB


ACD-4250 CONTROL
9CD6559401-00
CW813
CW812
CW811
CN805
RD
R807
R822
R809
JW254
C812
C811
JW251
JW252
C806
C805
C827
R804
D803
JW253
JW255
R802
C804
D802
D801
C802
C803
R801
C801
CN801
D806
CN806
C809
C828
R803
R808
R810
R805
C810
R812
R806
R811
Q803
C814
C813
Q801
X801
Q802
JW256
JW257
CN803
IC801
C815
JW259
R813
R816
R817
R818
R819
JW258
D804
JW240
D805
JW241
C823
C824
C822
C821
C825
BK
R814
R815
D810
D811
D812
D813
D814
D815
D816
D817
D818
JW246
JW247
JW248
JW243
JW244
JW245
CN807
C819
C818
C816
C817
C826
C820
JW242
R821
R820
Q804
CN804
CN802
JW250
Q805
JW249
CW814
CW816
CW815
JW260
JW261

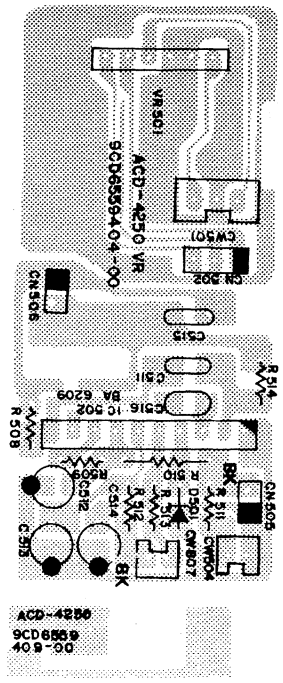
3) CD & TUNER LED PCB


LED 09
LED 08
LED 07
LED 06
ACD-4250 C/LED
9CD6559408-00
CN 907
LED 05
LED 04
LED 03
LED 02
LED 01
ACD-4250 T/LED
9CD6559407-00
CN 905

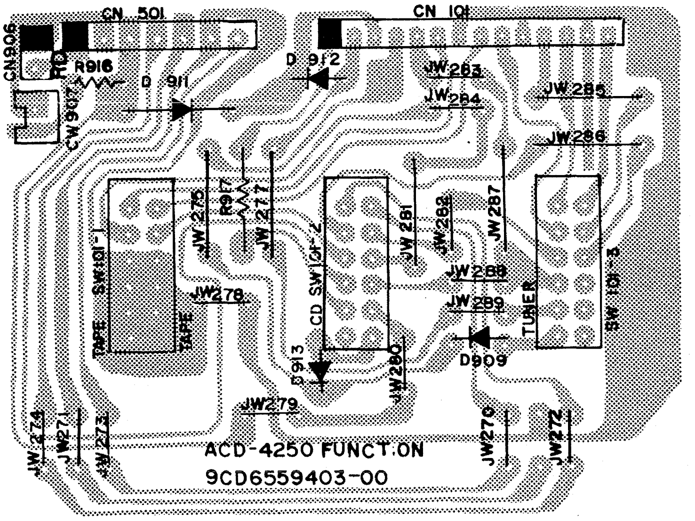
4) TUNER LCD PCB


ACD 4250
VR/LED
LED10
RV 801
ACD-4250
LCD
9CD6559402-00
LCD 01
CW811
CW812
CW813
CW815
CW816
CW814
JW281
JW282
JW284
JW283
SW 809
V/DOWN
D820
SW 812
A/M
SW 813
T/UP
D823
D821
D822
D824
SW 808
MEMO
SW 802
TIME SET
SW 801
TIME ON
SW 807
SLEEP
SW 805
DIS.PLAY
SW 804
BAND
SW 815
1
SW 811
2
SW 806
3
D819
SW 803
4
SW 814
5
SW 810
6

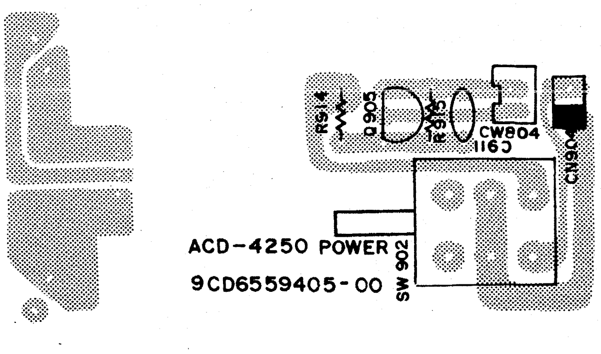
5) VOLUME PCB


VR501
ACD-4250 VR
9CD6559404-00
CW501
CN502
CN506
C513
C511
R514
C516
IC 502
BA 6209
R508
R509
R510
C512
C514
R512
R513
D501
R511
CW507
CW504
CN505
BK
C515
ACD-4250
9CD6559
409-00

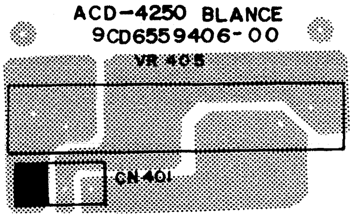
6) FUNCTION PCB


CN 501
CN 101
CN906
CW907
R916
D 911
D 912
JW283
JW284
JW285
JW286
SW101-1
TAPE
TAPE
JW275
R917
JW277
CD SW101-2
JW281
JW282
JW287
JW288
JW289
TUNER
SW 101-3
JW278
D913
JW280
D909
JW279
JW274
JW271
JW273
JW270
JW272
ACD-4250 FUNCTION
9CD6559403-00

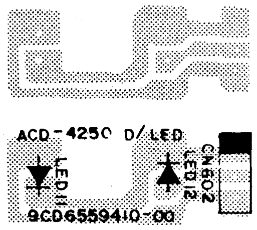
7) POWER SW PCB


R914
Q905
R915
CW804
C911
CN90
ACD-4250 POWER
9CD6559405-00
SW 902

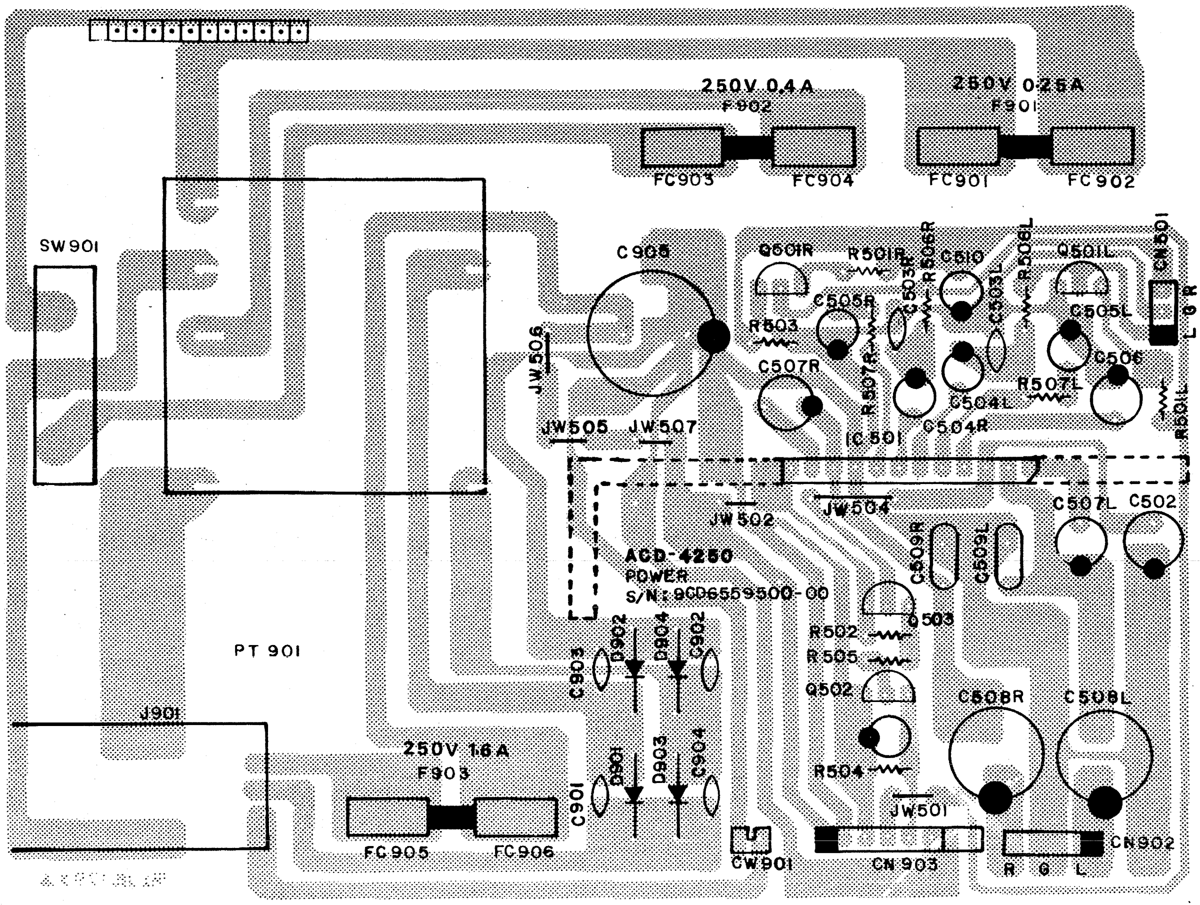
8)


ACD-4250 BLANCE
9CD6559406-00
VR 405
CN401

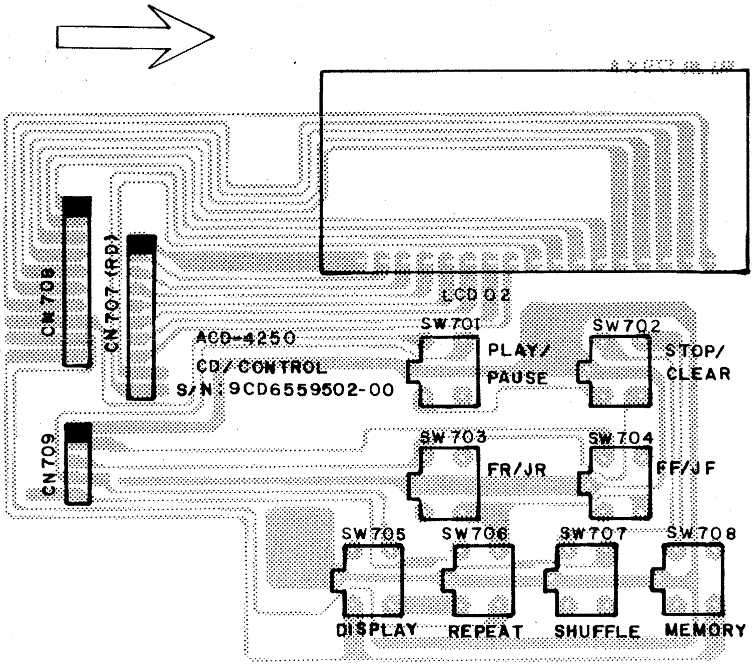
9) TAPE DIRECTION LED PCB


ACD-4250 D/LED
LED11
LED12
CN602
9CD6559410-00

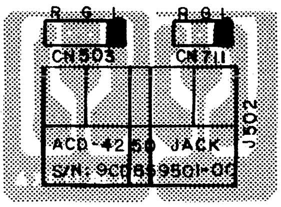
10) POWER PCB


250V 0.4A
F902
250V 0.25A
F901
FC903
FC904
FC901
FC902
SW901
C905
Q501R
R501R
R506R
C510
R508L
Q501L
CN501
C505R
C503R
C503L
C505L
L G R
R503
JW506
C507R
R507R
C504L
R507L
C506
R501L
JW505
JW507
IC501
C504R
JW502
JW504
C507L
C502
ACD-4250
POWER
S/N: 9CD6559500-00
C509R
C509L
Q503
R502
R505
PT 901
C903
D902
D904
C902
Q502
C508R
C508L
J901
250V 1.6A
F903
C901
D901
D903
C904
R504
JW501
FC905
FC906
CW901
CN903
CN902
R G L

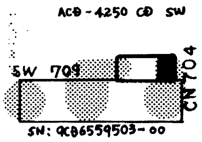
11) CD CONTROL PCB


CN708
CN707 (RD)
CN709
LCD Q2
ACD-4250
CD/CONTROL
S/N: 9CD6559502-00
SW701
PLAY/
PAUSE
SW702
STOP/
CLEAR
SW703
FR/JR
SW704
FF/JF
SW705
DISPLAY
SW706
REPEAT
SW707
SHUFFLE
SW708
MEMORY

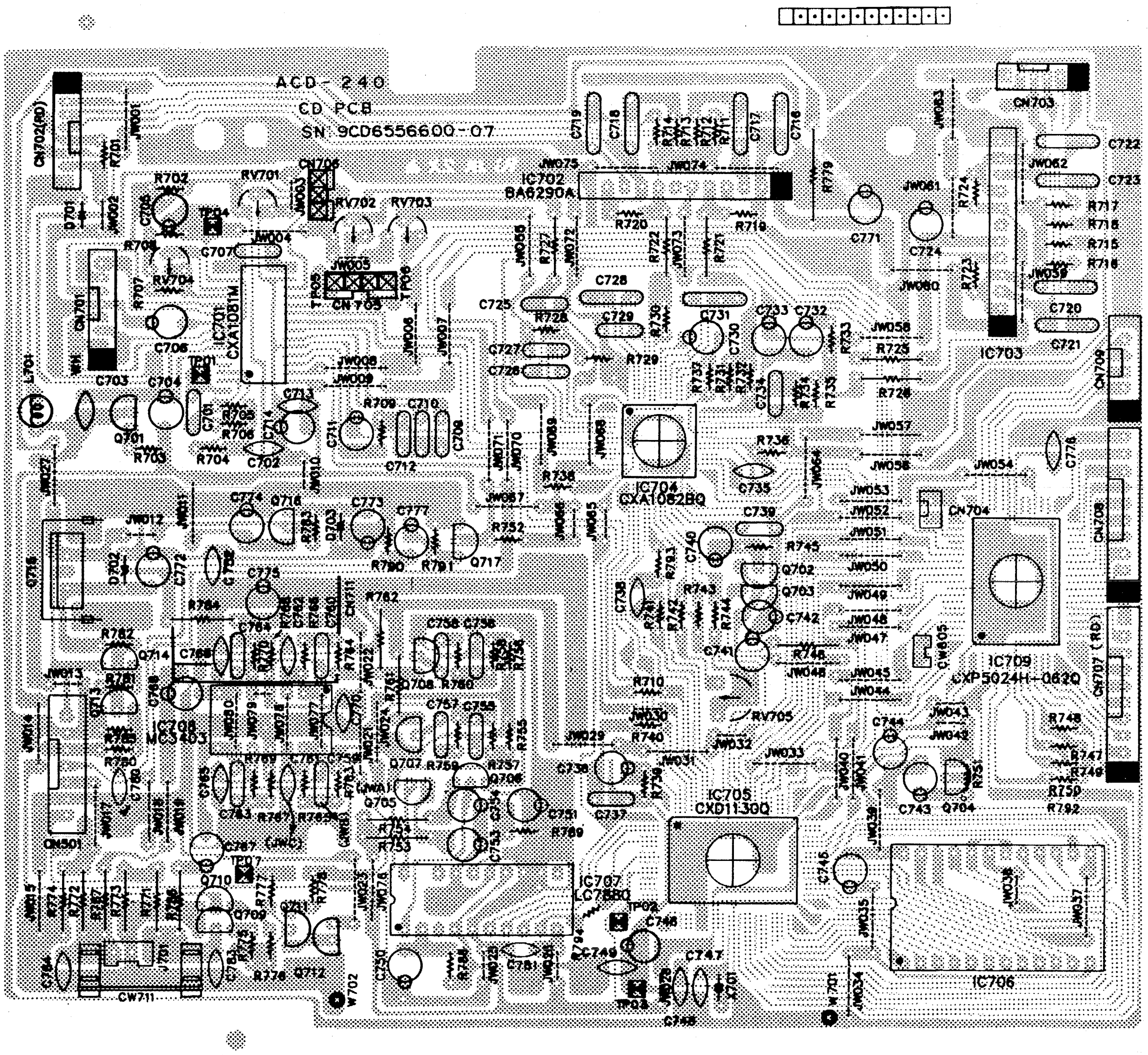
12) JACK PCB


R G L
R G L
CN503
CN711
J502
ACD-4250 JACK
S/N: 9CD6559501-00

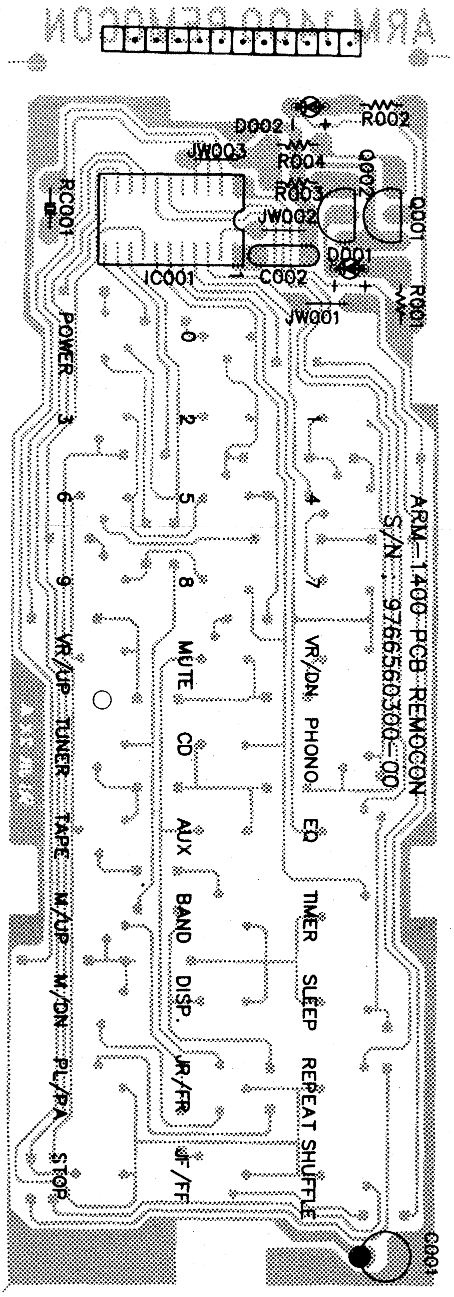
13) CD LEAD SW PCB


ACD-4250 CD SW
SW 709
CN704
SN: 9CD6559503-00

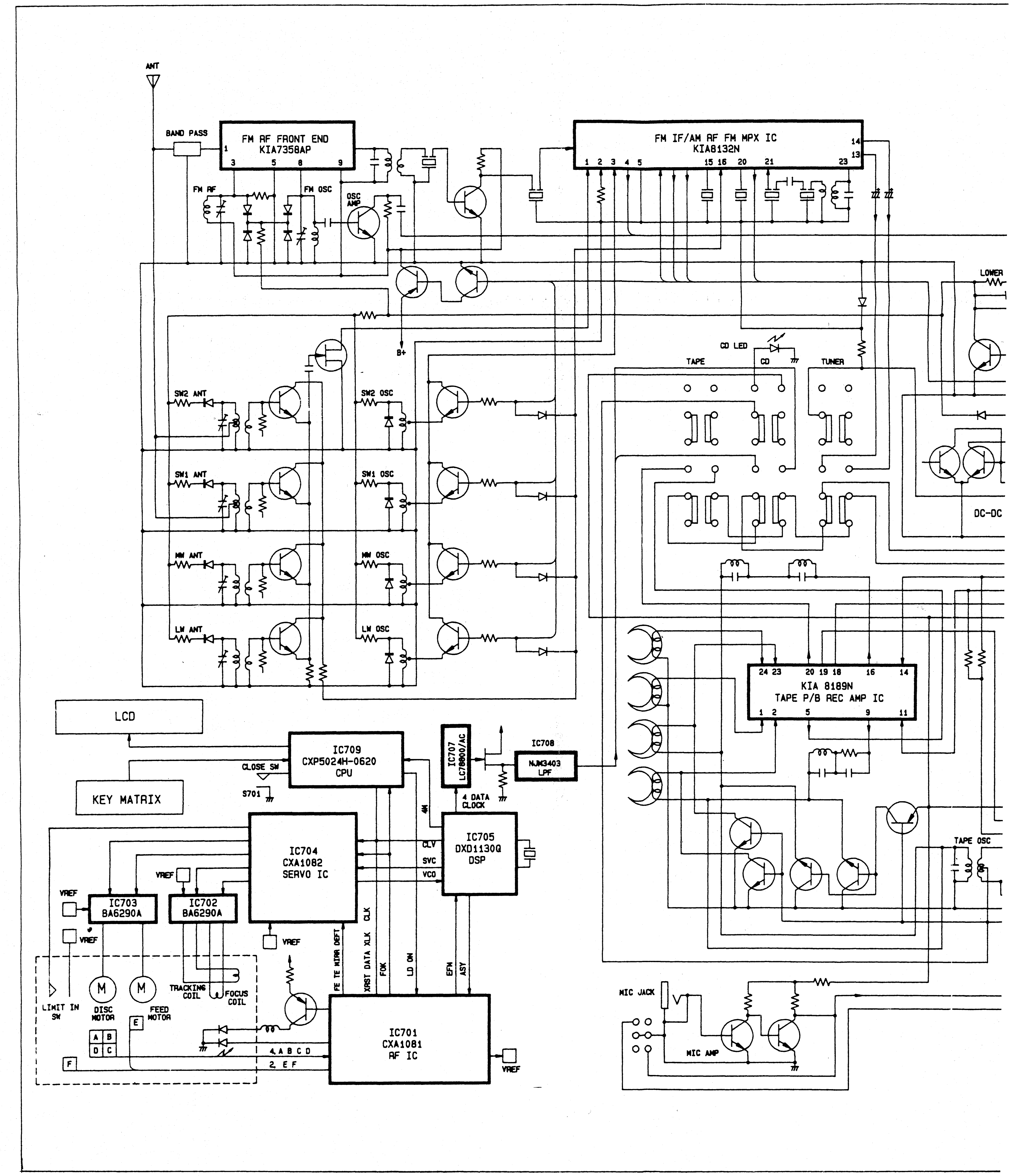
14) CD PCB

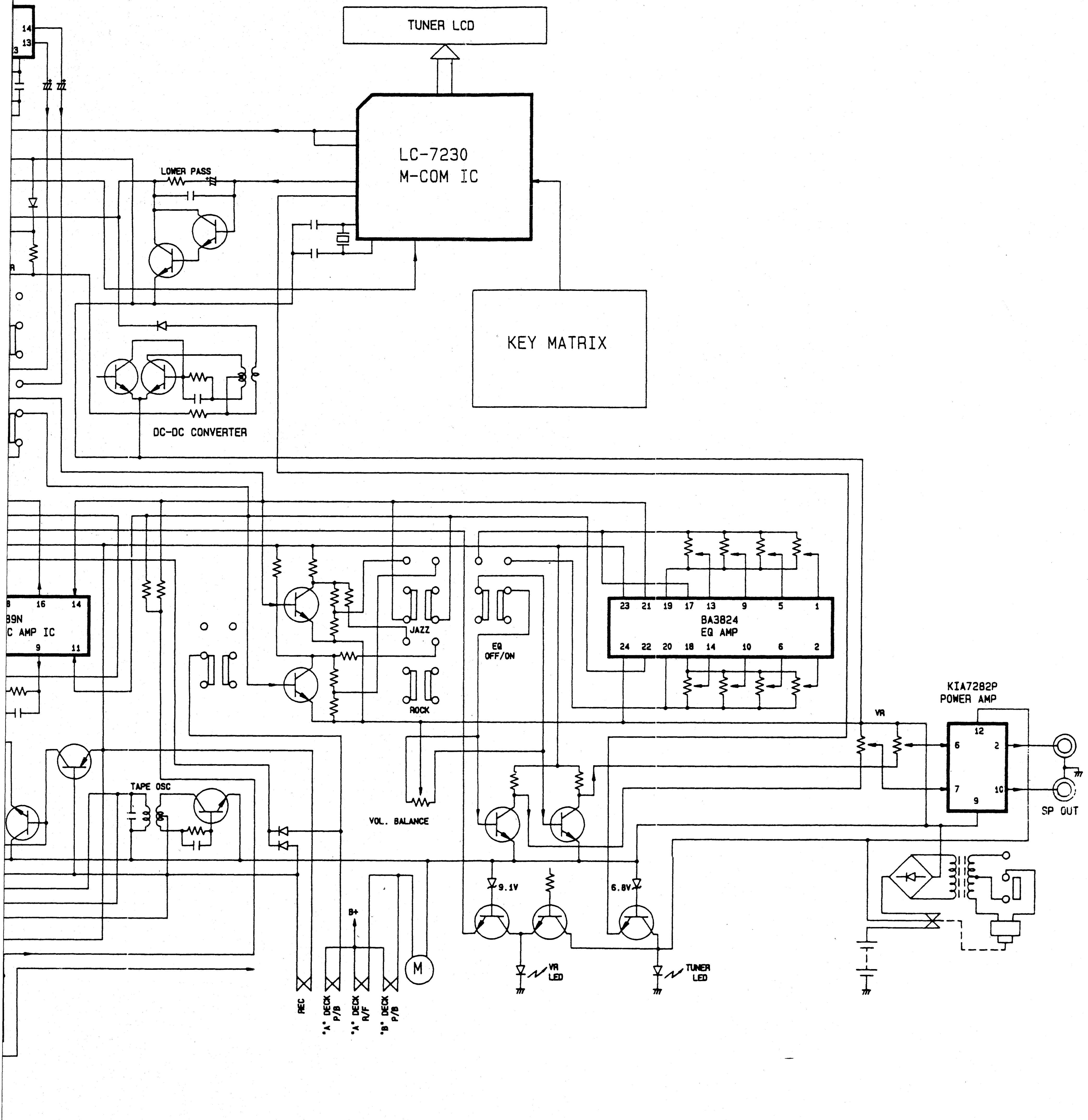

ACD-240
CD PCB
SN 9CD6556600-07
IC701
CXA1081M
IC702
BA6290A
IC703
IC704
CXA1082BQ
IC705
CXD1130Q
IC706
IC707
LC7880
IC708
MC3403
IC709
CXP5024H-062Q
CN701
CN702(RD)
CN703
CN704
CN705
CN706
CN707 (RD)
CN708
CN709
CN501
CN605
CW711
RV701
RV702
RV703
RV704
RV705
TP01
TP02
TP03
TP04
TP05
TP06
TP07
L701
X701
W701
W702
Q701
Q702
Q703
Q704
Q705
Q706
Q707
Q708
Q709
Q710
Q711
Q712
Q713
Q714
Q715
Q716
Q717
D701
D702
D703

16) REMOCON PCB


ARM-1400 PCB REMOCON
S/N : 97665603OO-00
D002
R002
JW003
R004
R003
Q002
Q001
JW002
RC001
D001
IC001
C002
R001
JW001
POWER
0
1
2
3
4
5
6
7
8
9
VR/UP
VR/DN
MUTE
PHONO
TUNER
CD
TAPE
AUX
EQ
M/UP
BAND
TIMER
M/DN
DISP.
SLEEP
PL/PA
JR/FR
REPEAT
STOP
JF/FF
SHUFFLE
C001

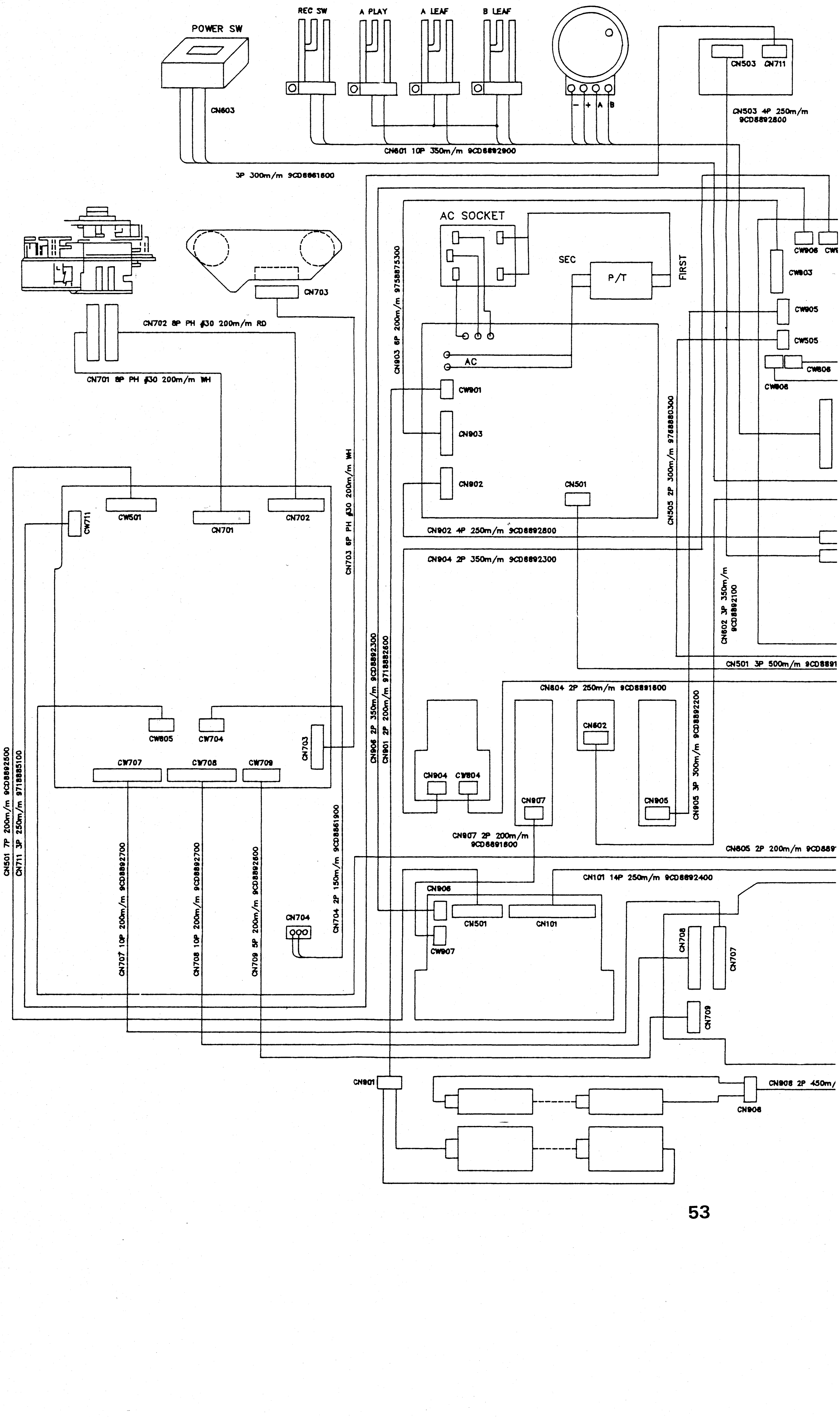
6. BLOCK DIAGRAM


ANT
BAND PASS
FM RF FRONT END
KIA7358AP
1 3 5 8 9
FM RF
FM OSC
OSC AMP
FM IF/AM RF FM MPX IC
KIA8132N
1 2 3 4 5 15 16 20 21 23 13 14
LOWER
B+
CD LED
TAPE
CD
TUNER
SW2 ANT
SW2 OSC
SW1 ANT
SW1 OSC
MW ANT
MW OSC
LW ANT
LW OSC
DC-DC
24 23 20 19 18 16 14
KIA 8189N
TAPE P/B REC AMP IC
1 2 5 9 11
LCD
IC709
CXP5024H-0620
CPU
CLOSE SW
S701
KEY MATRIX
IC707
LC78600/AC
IC708
NJM3403
LPF
4M
4 DATA
CLOCK
IC704
CXA1082
SERVO IC
IC705
DXD1130Q
DSP
CLV
SVC
VCO
VREF
IC703
BA6290A
IC702
BA6290A
FE TE MIRR DEFT
XRST DATA XLK CLK
FOK
LD ON
EFM
ASY
TAPE OSC
LIMIT IN SW
DISC MOTOR
FEED MOTOR
TRACKING COIL
FOCUS COIL
A B
D C
E
F
4, A B C D
2, E F
IC701
CXA1081
RF IC
MIC JACK
MIC AMP

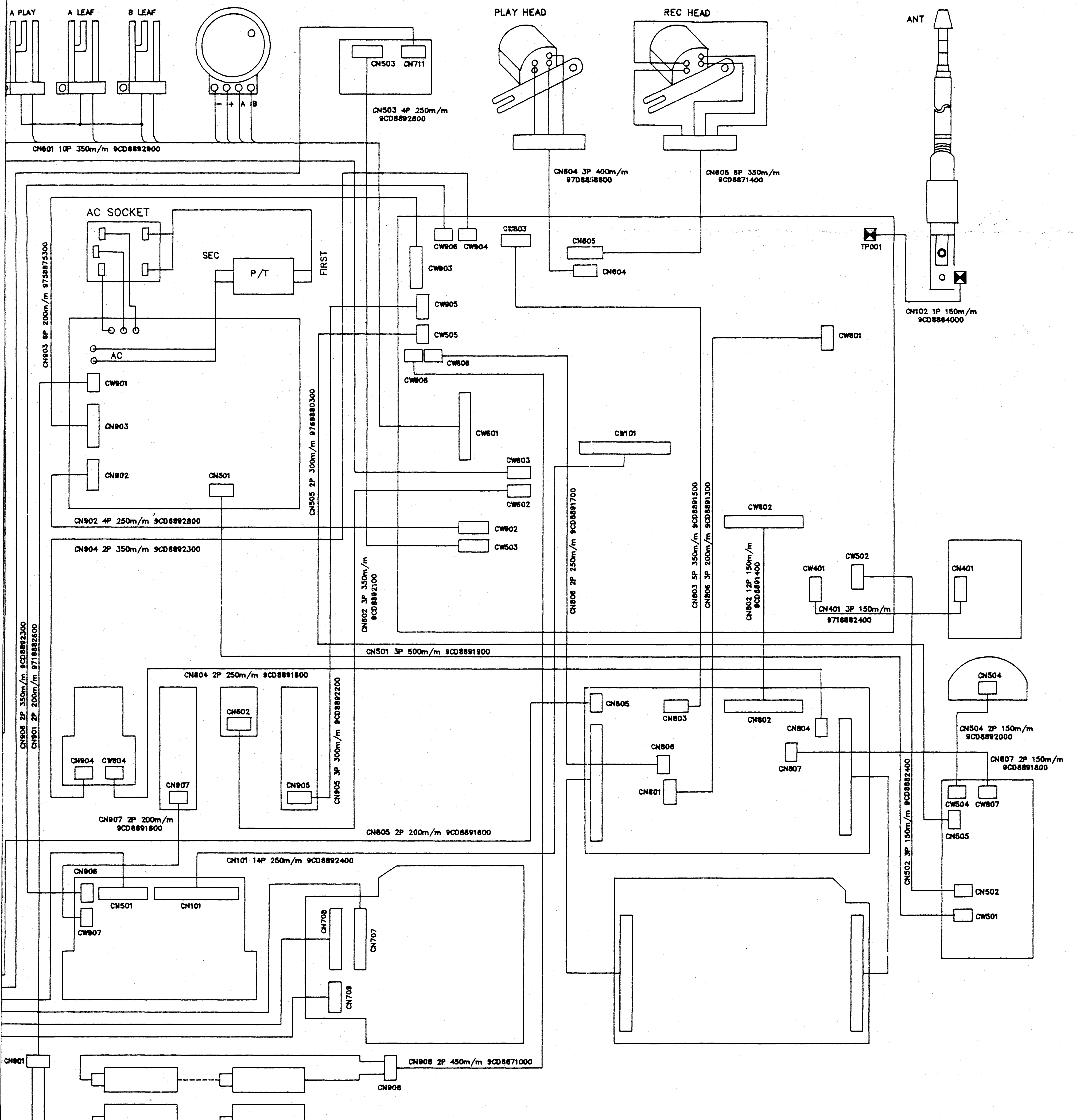

TUNER LCD
LC-7230
M-COM IC
KEY MATRIX
LOWER PASS
DC-DC CONVERTER
89N
C AMP IC
16
14
9
11
14
13
JAZZ
ROCK
EQ
OFF/ON
23 21 19 17 13 9 5 1
BA3824
EQ AMP
24 22 20 18 14 10 6 2
KIA7282P
POWER AMP
12
6
2
7
9
1C
VR
SP OUT
TAPE OSC
VOL. BALANCE
9.1V
6.8V
B+
M
REC
"A" DECK P/B
"A" DECK R/F
"B" DECK P/B
VR LED
TUNER LED

7. WIRING DIAGRAM

ACD-4250 WIRING

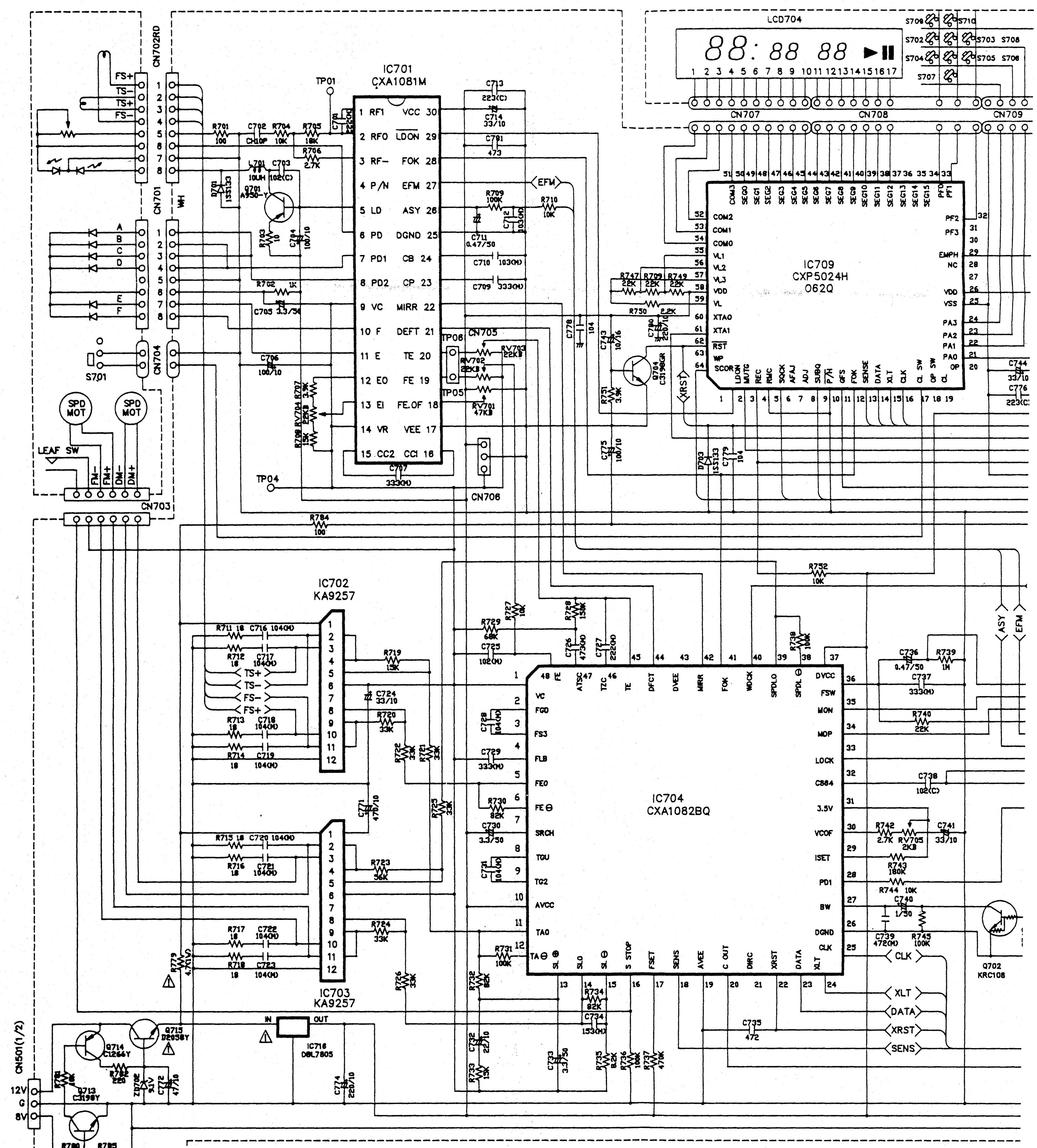

POWER SW
CN603
3P 300m/m 9CD8861600
REC SW
A PLAY
A LEAF
B LEAF
– + A B
CN601 10P 350m/m 9CD8892900
CN503 CN711
CN503 4P 250m/m 9CD8892800
CN702 8P PH ϕ30 200m/m RD
CN701 8P PH ϕ30 200m/m WH
CN703
CN703 6P PH ϕ30 200m/m WH
CW711
CW501
CN701
CN702
CW805
CW704
CN703
CW707
CW708
CW709
CN501 7P 200m/m 9CD8892500
CN711 3P 250m/m 9718885100
CN707 10P 200m/m 9CD8892700
CN708 10P 200m/m 9CD8892700
CN709 5P 200m/m 9CD8892600
CN704
CN704 2P 150m/m 9CD8861900
AC SOCKET
SEC
P/T
FIRST
AC
CN903 6P 200m/m 9758875300
CW901
CN903
CN902
CN501
CN902 4P 250m/m 9CD8892800
CN904 2P 350m/m 9CD8892300
CN906 2P 350m/m 9CD8892300
CN901 2P 200m/m 9718882600
CN505 2P 300m/m 9768880300
CN602 3P 350m/m 9CD8892100
CN501 3P 500m/m 9CD8891
CW906 CW
CW803
CW905
CW505
CW806
CW808
CN804 2P 250m/m 9CD8891600
CN602
CN904 CW804
CN907
CN905
CN905 3P 300m/m 9CD8892200
CN907 2P 200m/m 9CD8891600
CN805 2P 200m/m 9CD889
CN101 14P 250m/m 9CD8892400
CN906
CN501
CN101
CW907
CN708
CN707
CN709
CN901
CN908
CN908 2P 450m/

D-4250 WIRING DIAGRAM


A PLAY
A LEAF
B LEAF
- + A B
CN503 CN711
CN503 4P 250m/m 9CD8892800
PLAY HEAD
REC HEAD
ANT
CN601 10P 350m/m 9CD8892900
CN604 3P 400m/m 97D8858800
CN605 6P 350m/m 9CD8871400
AC SOCKET
SEC
P/T
FIRST
AC
CN903 6P 200m/m 9758875300
CW906 CW904
CW603
CW803
CN605
CN604
TP001
CN102 1P 150m/m 9CD8864000
CW905
CW505
CW806
CW906
CW801
CW901
CN903
CW601
CN101
CW603
CW602
CN902
CN501
CN505 2P 300m/m 9768880300
CN806 2P 250m/m 9CD8891700
CN803 5P 350m/m 9CD8891500
CN806 3P 200m/m 9CD8891300
CN802 12P 150m/m 9CD8891400
CW802
CN902 4P 250m/m 9CD8892800
CW902
CW503
CN904 2P 350m/m 9CD8892300
CN602 3P 350m/m 9CD8892100
CW502
CW401
CN401
CN401 3P 150m/m 9718882400
CN501 3P 500m/m 9CD8891900
CN906 2P 350m/m 9CD8892300
CN901 2P 200m/m 9718882600
CN804 2P 250m/m 9CD8891600
CN905 3P 300m/m 9CD8892200
CN504
CN602
CN605
CN803
CN802
CN804
CN504 2P 150m/m 9CD8892000
CN806
CN807
CN807 2P 150m/m 9CD8891600
CN801
CN904 CW804
CN907
CN905
CW504 CW807
CN907 2P 200m/m 9CD8891600
CN805 2P 200m/m 9CD8891600
CN505
CN502 3P 150m/m 9CD8882400
CN101 14P 250m/m 9CD8892400
CN906
CN501
CN101
CW907
CN708
CN707
CN709
CN502
CW501
CN901
CN908 2P 450m/m 9CD8871000
CN906

8. SCHEMATIC DIAGRAM

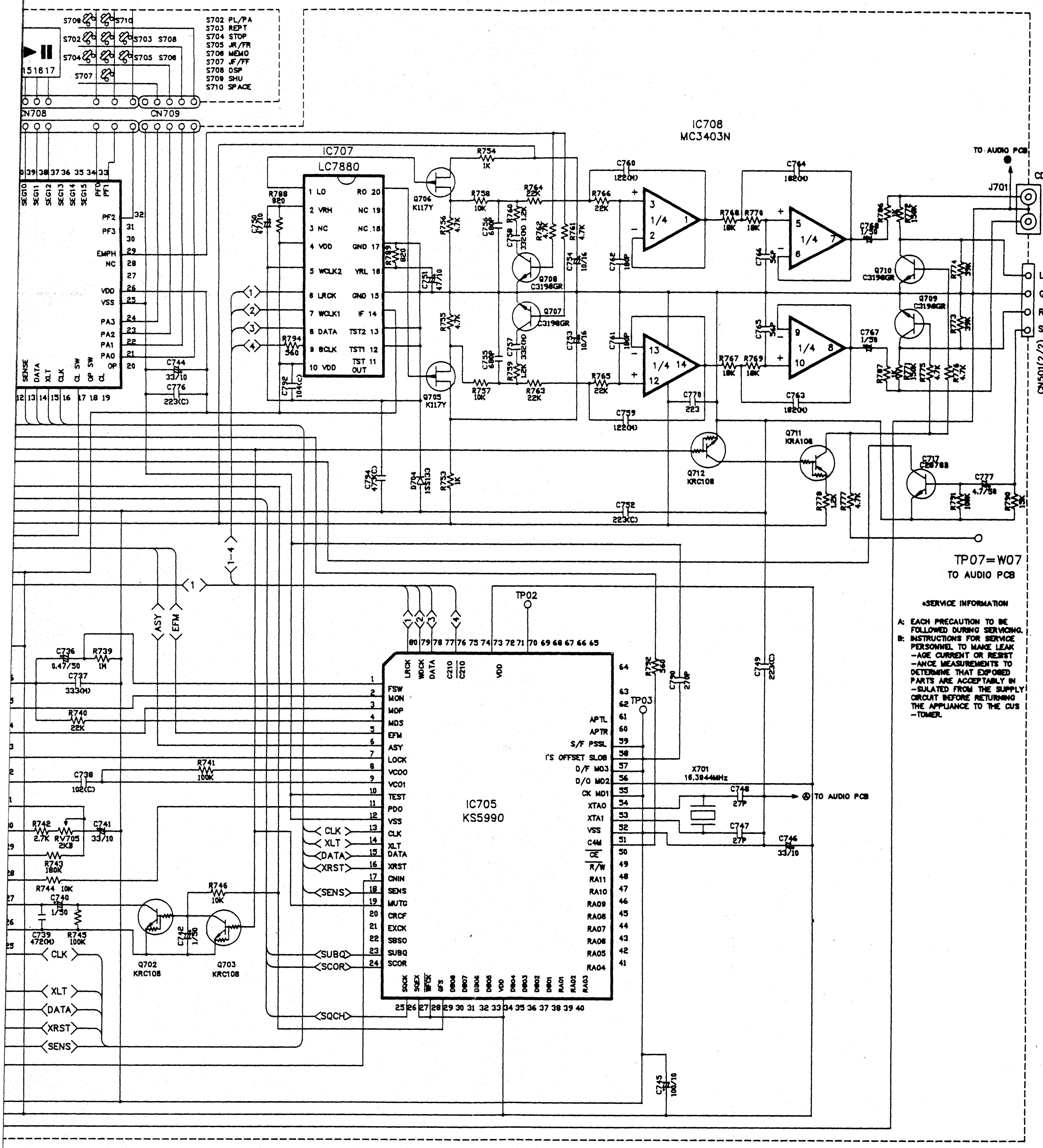
1) CD SECTION



IC701
CXA1081M
IC702
KA9257
IC703
KA9257
IC704
CXA1082BQ
IC709
CXP5024H
062Q
IC716
DBL7805
LCD704
CN501(1/2)
CN701
CN702RD
CN703
CN704
CN705
CN706
CN707
CN708
CN709
SPD MOT
LEAF SW
S701
TP01
TP04
TP05
TP06
Q701 A950-Y
Q702 KRC108
Q704 C3198GR
Q713 C3198Y
Q714 C1266Y
Q715 D2058Y
D701 1SS133
D703 1SS133
12V
G
8V
FS+
TS-
TS+
FS-
FM-
FM+
DM-
DM+
EFM
ASY
XRST
CLK
XLT
DATA
SENS

- SERVICING INSTRUCTIONS
  1) DISCONNECT THE SET FROM THE MAIN SUPPLY BEFORE OPENING THE CABINET.
  2) COMPONENTS IDENTIFIED WITH THE SYMBOL⚠ ON THE SCHEMATIC DIAGRAM ARE NEEMED TO BE CRITICAL WITH RESPECT TO THE RISKS OF FILE AND ELECTRICAL SHOCK ASSOCIATED WITH THE SET.
  3) USE ONLY REPLACEMENT PARTS THAT HAVE THE CRITICAL CHARACTERISTICS RECOMMENDED BY THE MANUFACTURER.
  4) SERVICE PERSONNEL SHALL MAKE LEAKAGE-CURRENT OR REGISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CURRENT BEFORE RETUNING THE APPARATUS TO THE CUSTOMER

- NOTICES
  1) ALL RESISTANCE
  OTHERWISE NOTIC
  2) ALL CAPACITANC
  3) THIS SCHEMATIC


S702 PL/PA
S703 REPT
S704 STOP
S705 JR/FR
S706 MEMO
S707 JF/FF
S708 DSP
S709 SHU
S710 SPACE
CN708
CN709
SENSE
DATA
XLT
CLK
CL SW
OP SW
CL
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
PF0
PF1
PF2
PF3
EMPH
NC
VDD
VSS
PA3
PA2
PA1
PA0
OP
C744 33/10
C776 223(C)
IC707
LC7880
1 LO
2 VRH
3 NC
4 VDD
5 WCLK2
6 LRCK
7 WCLK1
8 DATA
9 BCLK
10 VDD
RO 20
NC 19
NC 18
GND 17
YRL 16
GND 15
IF 14
TST2 13
TST1 12
TST 11 OUT
R788 820
C750 47/10
R794 560
C792 104(C)
R789 820
C751 47/10
Q706 K117Y
Q705 K117Y
R754 1K
R758 10K
R756 4.7K
R755 4.7K
R757 10K
C756 680P
C755 680P
R764 22K
R760 1.2K
C758 3320(H)
R762 4.7K
R761 4.7K
C754 10/16
C753 10/16
Q708 C3198GR
Q707 C3198GR
C757 3320(H)
R759 1.2K
R763 22K
IC708
MC3403N
C760 1220(H)
R766 22K
C762 180P
C761 180P
R765 22K
C759 1220(H)
C770 223
R768 18K
R770 18K
R767 18K
R769 18K
C764 1820(H)
C766 56P
C765 56P
C763 1820(H)
1/4
C768 1/50
C767 1/50
R786 1K
R772 150K
R774 39K
R773 39K
R787 1K
R771 150K
R775 4.7K
R776 4.7K
Q710 C3198GR
Q709 C3198GR
TO AUDIO PCB
CD OUT
J701
L
R
G
SYN
CN501(2/2)
Q712 KRC108
Q711 KRA108
C717 C2878B
C777 4.7/50
R791 100K
R790 13K
R778 1.2K
R777 4.7K
C794 47X(C)
D704 1SS133
R753 1K
C752 223(C)
TP07=W07
TO AUDIO PCB
(1-4)
(1)
ASY
EFM
C736 0.47/50
R739 1M
C737 333(H)
R740 22K
R741 100K
C738 102(C)
R742 2.7K
RV705 2KB
C741 33/10
R743 180K
R744 10K
C740 1/50
C739 4720(H)
R745 100K
R746 10K
C742 1/50
Q702 KRC108
Q703 KRC108
CLK
XLT
DATA
XRST
SENS
SUBQ
SCOR
SQCH
TP02
IC705
KS5990
LRCK
WDCK
DATA
C210
VDD
FSW
MON
MDP
MDS
EFM
ASY
LOCK
VCOO
VCOI
TEST
PDO
VSS
CLK
XLT
DATA
XRST
CNIN
SENS
MUTG
CRCF
EXCK
SBSO
SUBQ
SCOR
SQCK
SQEX
WFCK
GFS
DB08
DB07
DB06
DB05
VDD
DB04
DB03
DB02
DB01
RA01
RA02
RA03
APTL
APTR
S/F PSSL
I'S OFFSET SLOB
O/F MO3
D/O MO2
CK MO1
XTAO
XTAI
VSS
C4M
CE
R/W
RA11
RA10
RA09
RA08
RA07
RA06
RA05
RA04
TP03
R792 560
C790 270P
C749 223(C)
X701 16.3944MHz
C748 27P
C747 27P
C746 33/10
TO AUDIO PCB
C745 100/10

TP07=W07
TO AUDIO PCB

∗SERVICE INFORMATION

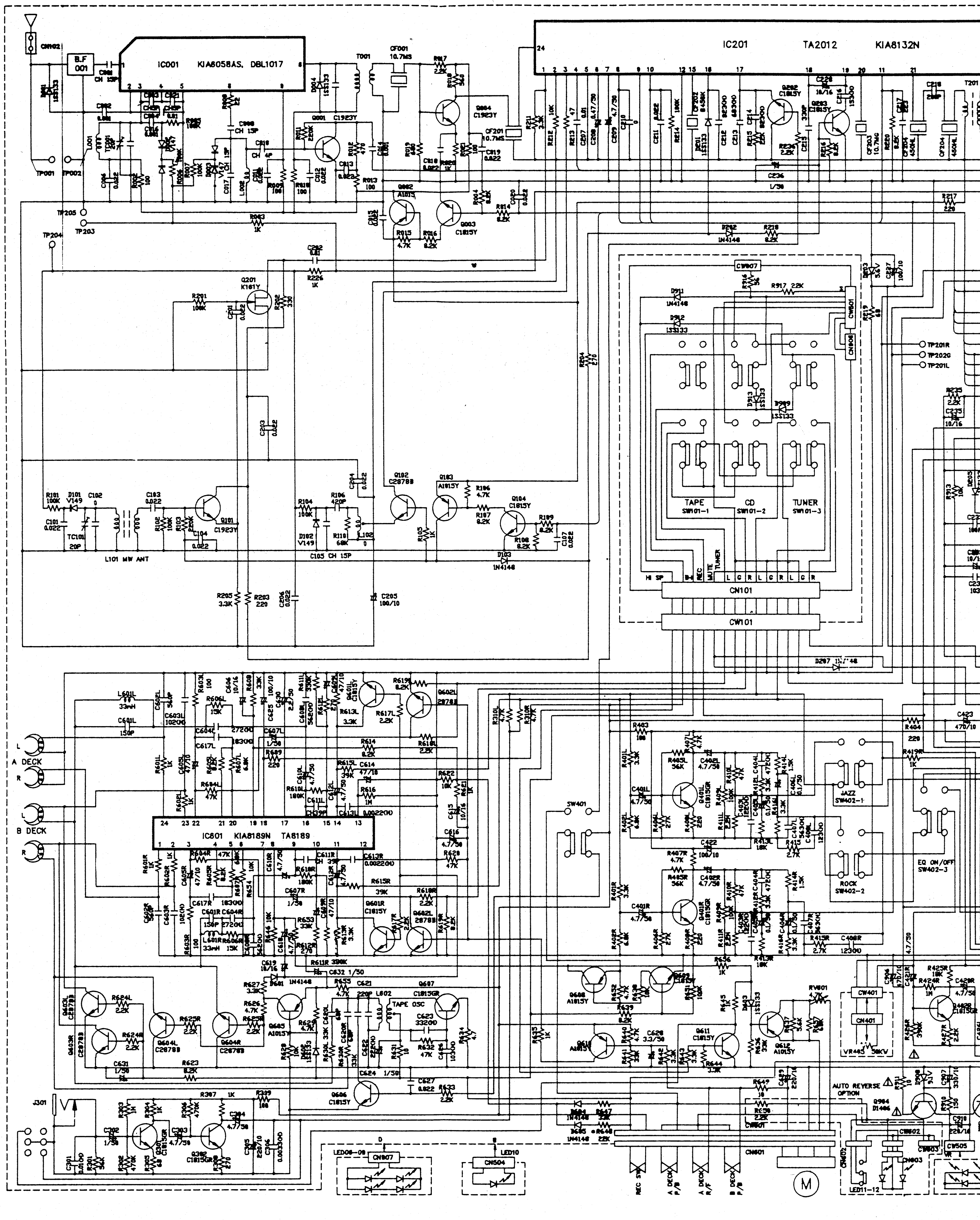
A: EACH PRECAUTION TO BE FOLLOWED DURING SERVICING.

B: INSTRUCTIONS FOR SERVICE PERSONNEL TO MAKE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

∗ NOTICES

1) ALL RESISTANCE VALUES ARE INDICATED IN OHM AND 1/6W OR 1/4W UNLESS OTHERWISE NOTICED , K=KILO , M=MEGA
2) ALL CAPACITANCE VALUES ARE INDECATED IN MICRO FARADS P=PICO FARADS.
3) THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY

■ AUDIO SECTION (2 BAND, AM/FM)


IC001 KIA6058AS, DBL1017
IC201 TA2012 KIA8132N
IC601 KIA8189N TA8189
L101 MW ANT
A DECK
B DECK
TAPE SW101-1
CD SW101-2
TUNER SW101-3
CN101
CW101
JAZZ SW402-1
ROCK SW402-2
EQ ON/OFF SW402-3
SW401
TAPE OSC
AUTO REVERSE OPTION
REC SW
A DECK P/B
A DECK R/F
B DECK P/B
CN601
J301
LED08-09
CN807
LED10
CN504
LED11-12
M

NOTICE

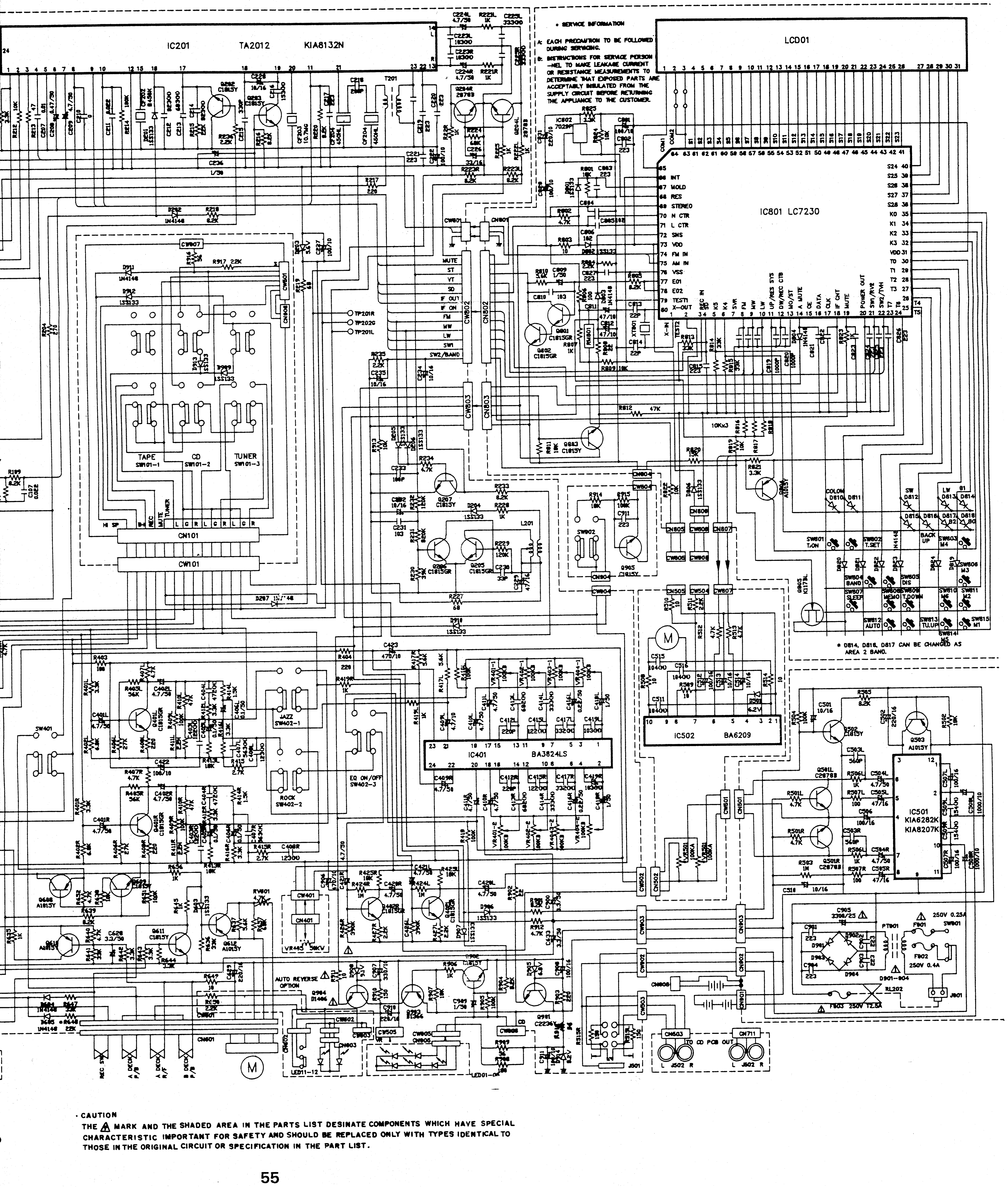
1) ALL RESISTANCE VALUES ARE INDICATED IN OHM AND 1/6W OR 1/4W UNLESS OTHERTHING NOTICED. K=KILLO, M=MEGA

2) ALL CAPACITANCE VALUES ARE INDICATED. IN MICRO PARADS, P=PICO PARADS.

3) THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.

· CAUTION

THE ⚠ MARK AND THE SHADED AREA IN THE PARTS LIST DESINATE COMPONEN CHARACTERISTIC IMPORTANT FOR SAFETY AND SHOULD BE REPLACED ONLY W THOSE IN THE ORIGINAL CIRCUIT OR SPECIFICATION IN THE PART LIST.



IC201 TA2012 KIA8132N
LCD01
IC801 LC7230
IC401 BA3824LS
IC502 BA6209
IC501 KIA6282K KIA8207K
IC802 7029P
CN101
CW101
CW802
CN802
CW803
CN803
TAPE SW101-1
CD SW101-2
TUNER SW101-3
JAZZ SW402-1
ROCK SW402-2
EQ ON/OFF SW402-3
SW401
SW902
AUTO REVERSE OPTION
REC SW
A DECK P/B
A DECK R/F
B DECK P/B
M
TO CD PCB OUT
J502 R
J502 L
250V 0.25A
250V 0.4A
250V T2.5A
SW801 T.ON
SW802 T.SET
SW803 M4
SW804 BAND
SW805 DIS
SW806 M3
SW807 SLEEP
SW808 MEMO
SW809 T.DOWN
SW810 M6
SW811 M2
SW812 AUTO
SW813 TU.UP
SW814 M5
SW815 M1
BACK UP
COLON
* D814, D816, D817 CAN BE CHANGED AS AREA 2 BAND.

• SERVICE INFORMATION

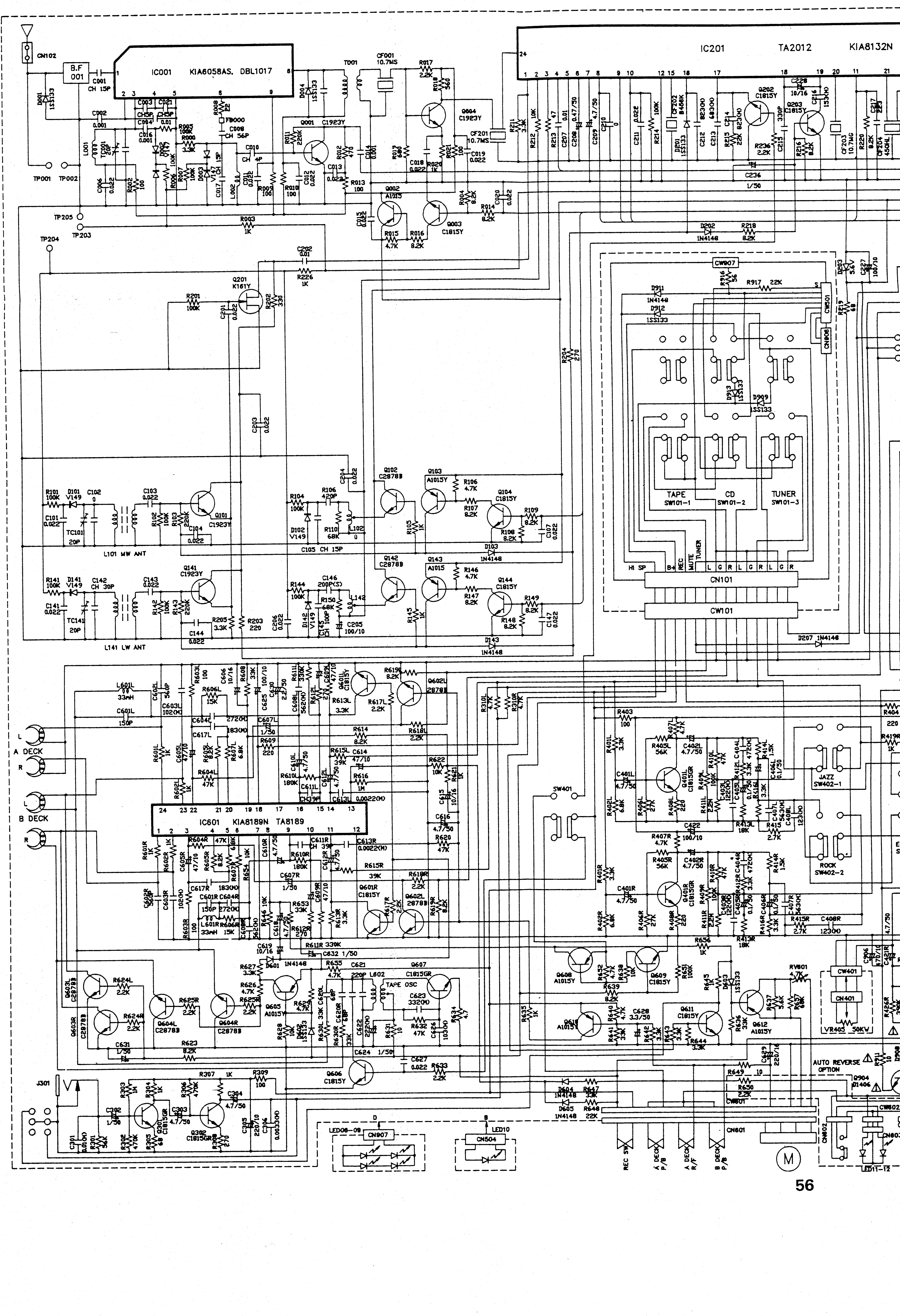
A: EACH PRECAUTION TO BE FOLLOWED DURING SERVICING.

B: INSTRUCTIONS FOR SERVICE PERSON-NEL TO MAKE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

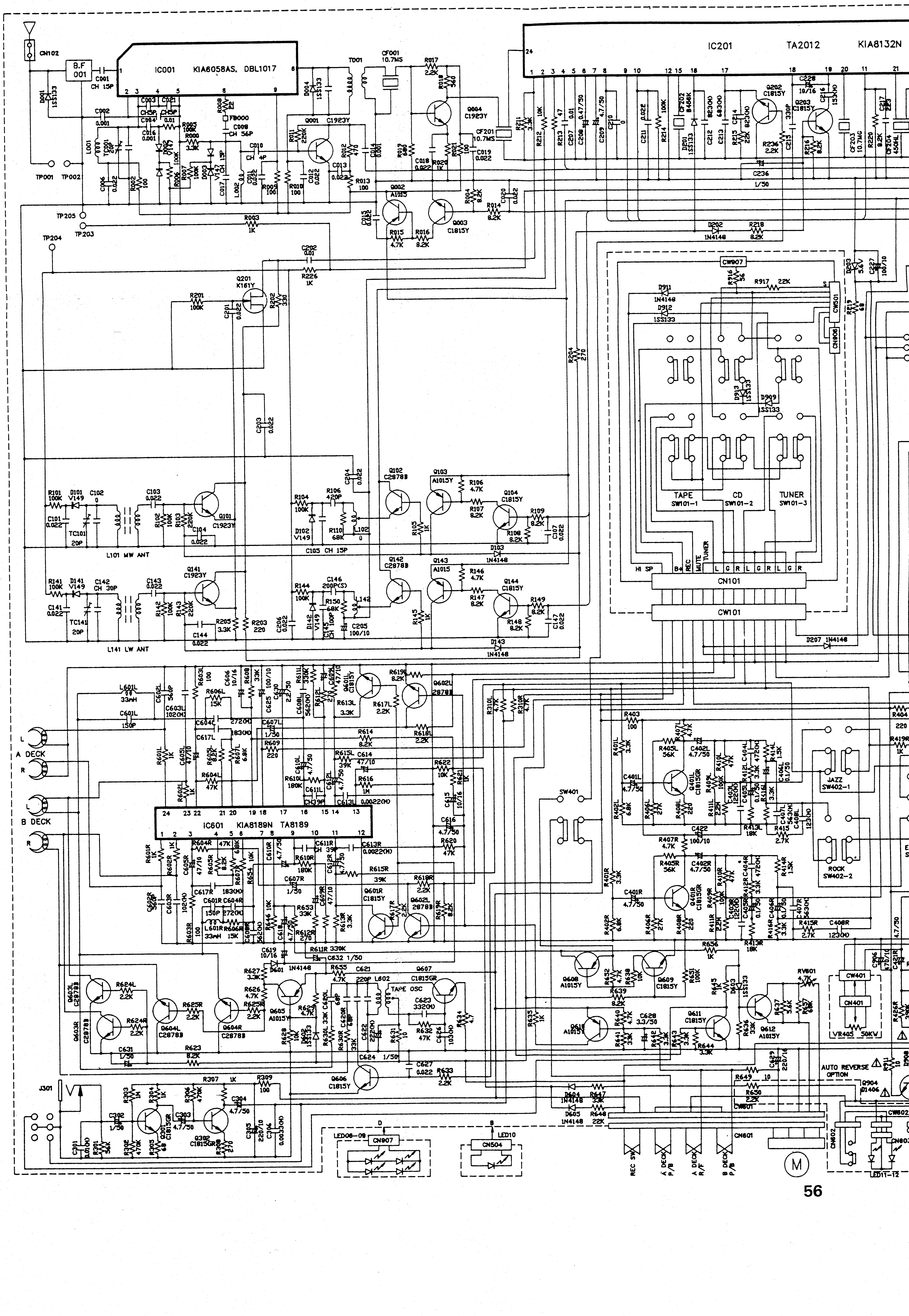
· CAUTION

THE ⚠ MARK AND THE SHADED AREA IN THE PARTS LIST DESINATE COMPONENTS WHICH HAVE SPECIAL CHARACTERISTIC IMPORTANT FOR SAFETY AND SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT OR SPECIFICATION IN THE PART LIST.

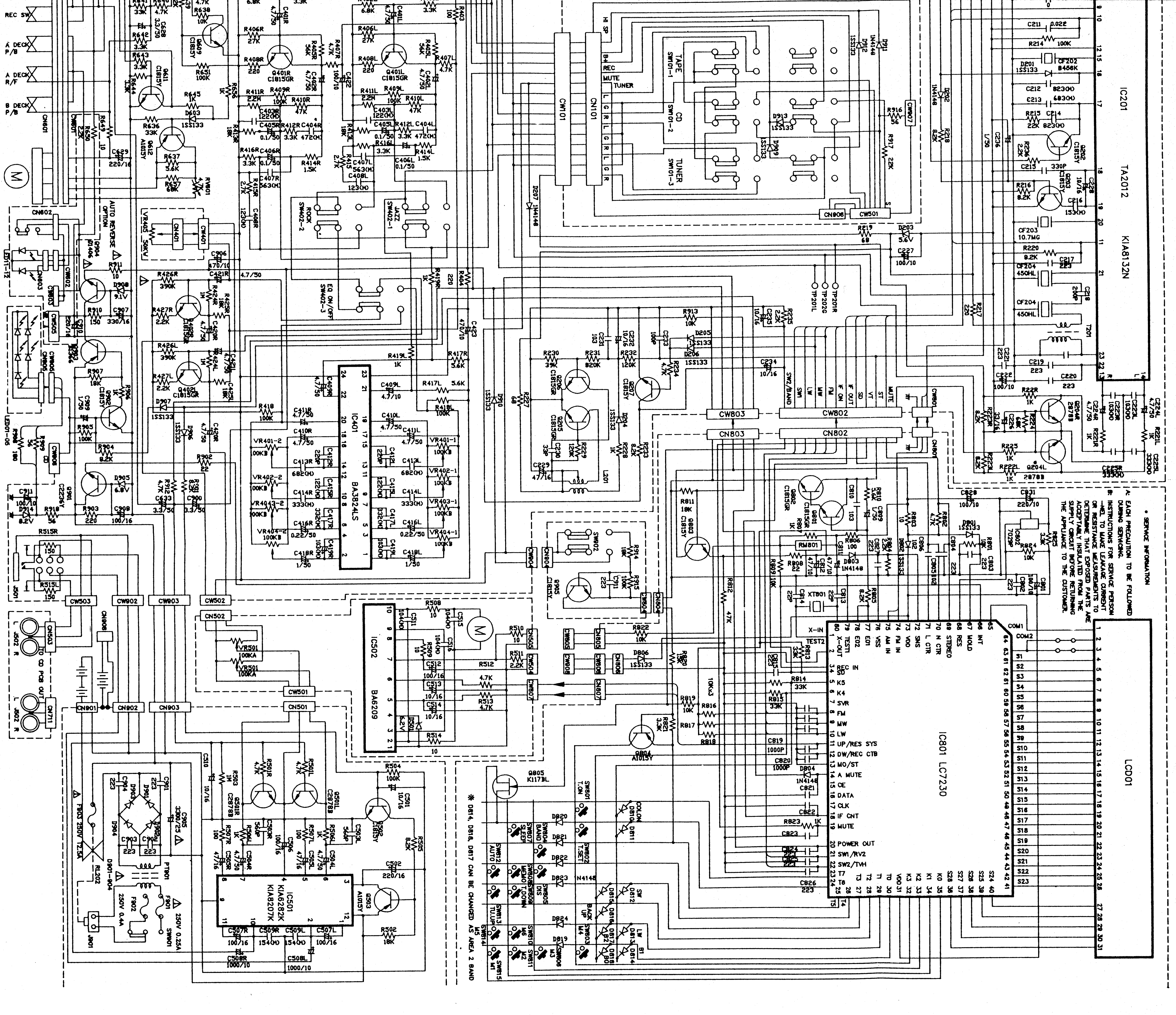
■ AUDIO SECTION (3 BAND, LW/MW/FM)


CN102
B.F 001
IC001 KIA6058AS, DBL1017
T001
CF001 10.7MS
Q001 C1923Y
Q002 A1015
Q003 C1815Y
Q004 C1923Y
CF201 10.7MS
TP001
TP002
TP203
TP204
TP205
Q201 K161Y
IC201 TA2012 KIA8132N
CF202 8456K
CF203 10.7MG
CF204 450HL
Q202 C1815Y
Q203 C1815Y
L101 MW ANT
L141 LW ANT
Q101 C1923Y
Q141 C1923Y
Q102 C2878B
Q103 A1015Y
Q104 C1815Y
Q142 C2878B
Q143 A1015
Q144 C1815Y
CW907
CW501
CN906
TAPE SW101-1
CD SW101-2
TUNER SW101-3
HI SP
B+
REC
MUTE
TUNER
CN101
CW101
A DECK
B DECK
L
R
IC601 KIA8189N TA8189
TAPE OSC
SW401
JAZZ SW402-1
ROCK SW402-2
Q401L C1815GR
Q401R C1815GR
J301
LED08-09
CN907
LED10
CN504
REC SW
A DECK P/B
A DECK R/F
B DECK P/B
CN601
CW601
CW401
CN401
VR405 50KW
AUTO REVERSE OPTION
CN602
CW602
LED11-12
M

■ AUDIO SECTION (3 BAND, LW/MW/FM)



CN102
B.F 001
IC001 KIA6058AS, DBL1017
T001
CF001 10.7MS
IC201 TA2012 KIA8132N
TP001
TP002
TP203
TP204
TP205
Q001 C1923Y
Q002 A1015
Q003 C1815Y
Q004 C1923Y
CF201 10.7MS
CF202 8456K
CF203 10.7MG
CF204 450HL
Q201 K161Y
Q202 C1815Y
Q203 C1815Y
L101 MW ANT
L141 LW ANT
Q101 C1923Y
Q141 C1923Y
Q102 C2878B
Q103 A1015Y
Q104 C1815Y
Q142 C2878B
Q143 A1015
Q144 C1815Y
TAPE SW101-1
CD SW101-2
TUNER SW101-3
HI SP
B+
REC
MUTE
TUNER
CN101
CW101
CW907
CW501
CN906
L
A DECK
R
L
B DECK
R
IC601 KIA8189N TA8189
TAPE OSC
SW401
JAZZ SW402-1
ROCK SW402-2
Q401L C1815GR
Q401R C1815GR
Q601L C1815Y
Q601R C1815Y
Q602L 2878B
Q602R 2878B
Q603L C2878B
Q603R C2878B
Q604L C2878B
Q604R C2878B
Q605 A1015Y
Q606 C1815Y
Q607 C1815GR
Q608 A1015Y
Q609 C1815Y
Q610 A1015Y
Q611 C1815Y
Q612 A1015Y
Q301 C1815GR
Q302 C1815GR
J301
CW401
CN401
VR405 50KW
AUTO REVERSE OPTION
Q904
LED08-09
CN907
LED10
CN504
CN601
CW601
CN602
CW802
CN803
LED11-12
REC SW
A DECK P/B
A DECK R/F
B DECK P/B
M


IC801 LC7230
IC201 TA2012 KIA8132N
IC401 BA3824LS
IC502 BA6209
IC501 KIA6282K KIA8207K
LCD01
CW101
CN101
CW802
CN802
CW803
CN803
CW501
CN501
CW502
CN502
CW901
CN901
CW902
CN902
CW903
CN903
TAPE SW101-1
CD SW101-2
TUNER SW101-3
ROCK SW402-2
JAZZ SW402-1
EQ ON/OFF SW402-3
AUTO REVERSE OPTION
REC SW
A DECK P/B
A DECK R/F
B DECK P/B
TO CD PCB OUT
J502 R
J502 L
XT801
Q805 K1173L
Q804 A1015Y
F803 250V T2.5A
F901 250V 0.25A
F902 250V 0.4A
PT901
RL202
D901-904
J901
SW901

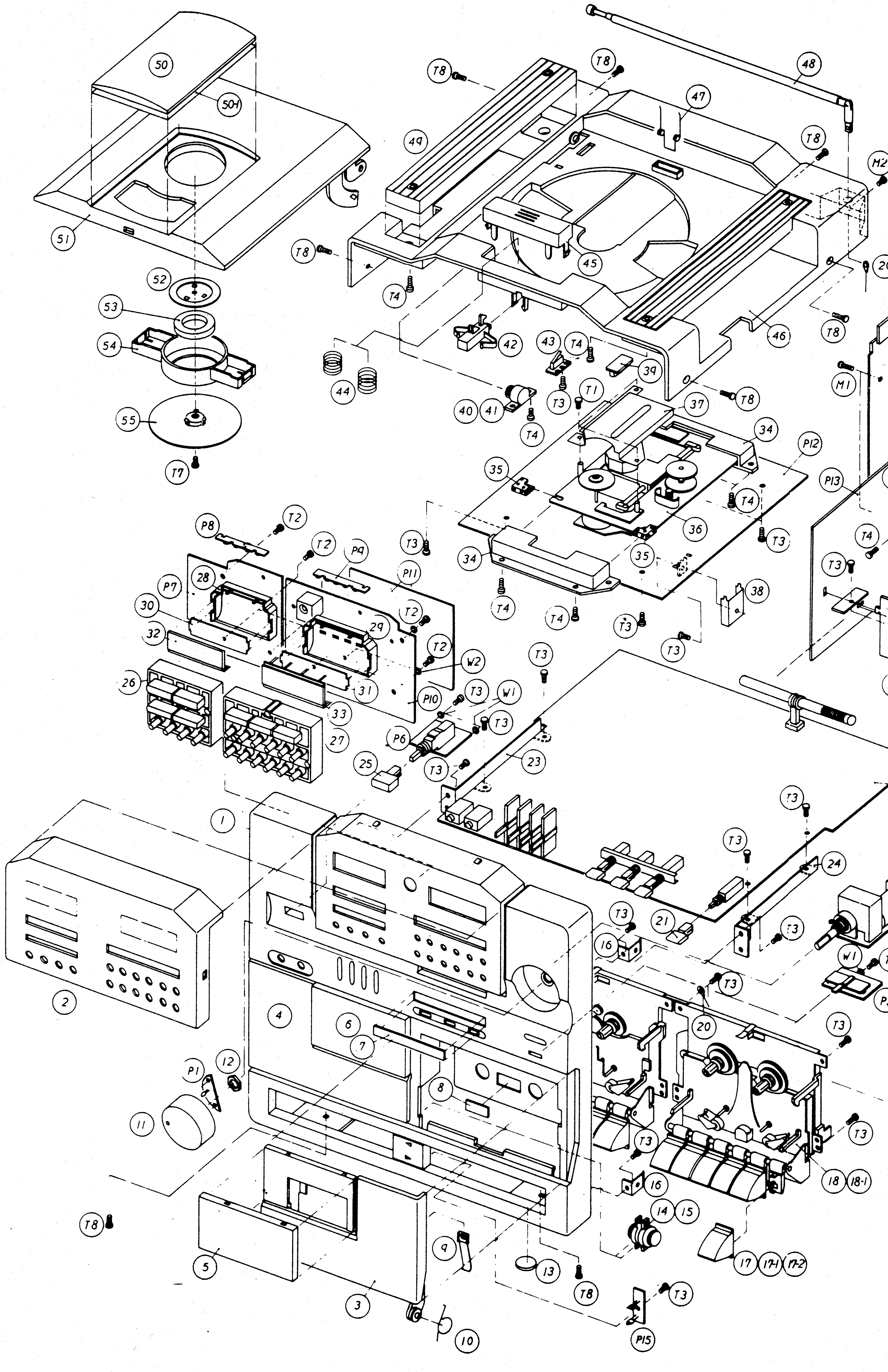
• SERVICE INFORMATION

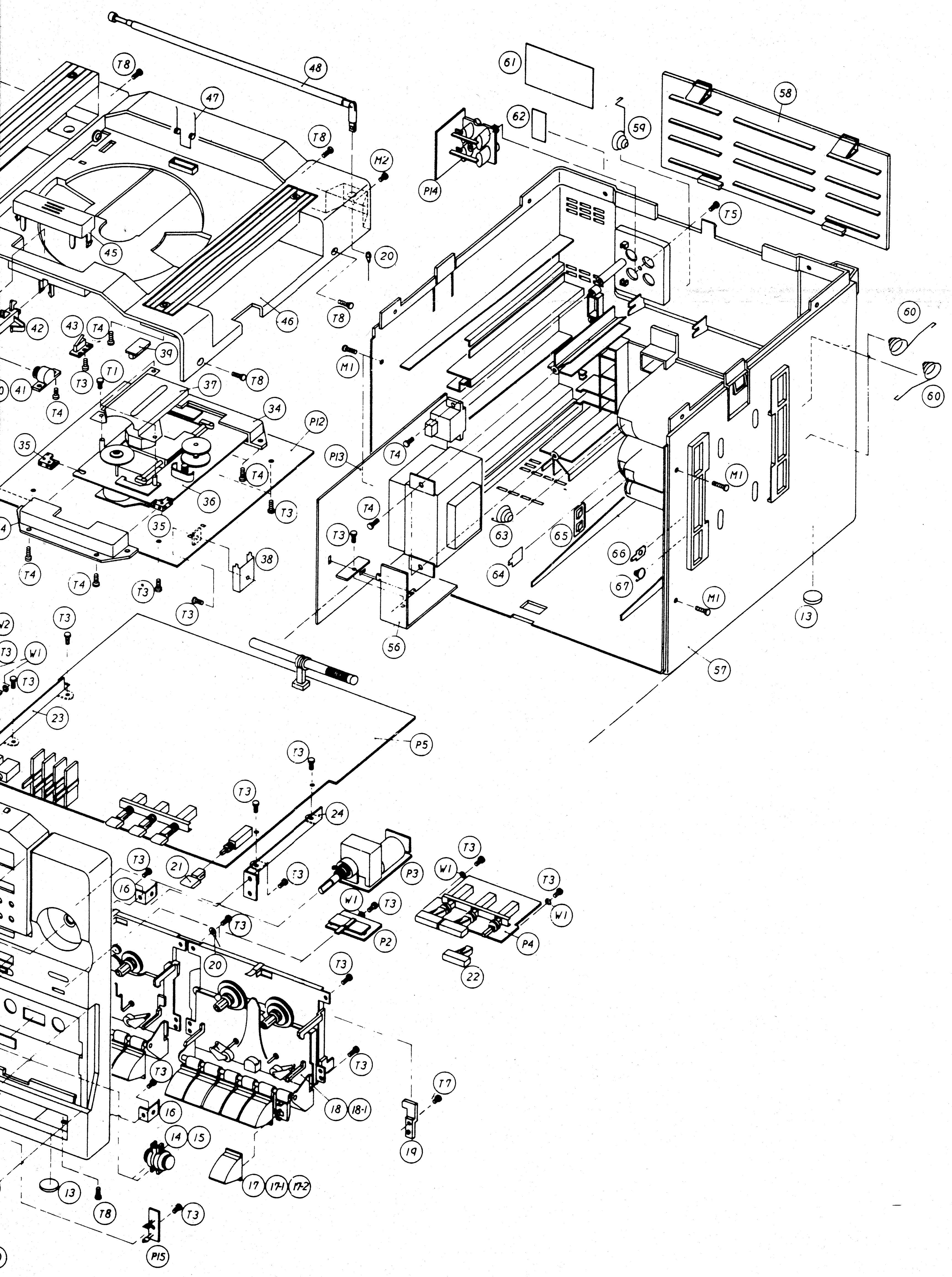
A: EACH PRECAUTION TO BE FOLLOWED DURING SERVICING.

B: INSTRUCTIONS FOR SERVICE PERSON —NEL TO MAKE LEAKAGE CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

※ D814, D816, D817 CAN BE CHANGED AS AREA 2 BAND

9. EXPLODED VIEW AND PARTS LIST


50
50-1
51
52
53
54
55
T7
T8
49
48
47
45
46
M2
T4
42
43
T1
39
37
44
40
41
34
P12
35
36
P13
38
M1
T2
P8
P9
P7
28
P11
30
29
32
W2
31
26
33
27
P10
W1
P6
25
23
T3
24
1
2
4
6
7
8
16
21
20
P1
12
11
5
3
9
10
13
14
15
17
17-1
17-2
18
18-1
P15


T8
48
47
61
58
T8
62
59
M2
P14
T5
45
20
46
T8
60
42
43
T4
39
M1
T3
T1
41
37
T8
60
34
T4
P12
35
P13
T4
M1
36
T3
T4
63
65
T3
35
38
64
66
T4
T4
T3
67
M1
13
T3
56
57
T3
W1
T3
23
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T3
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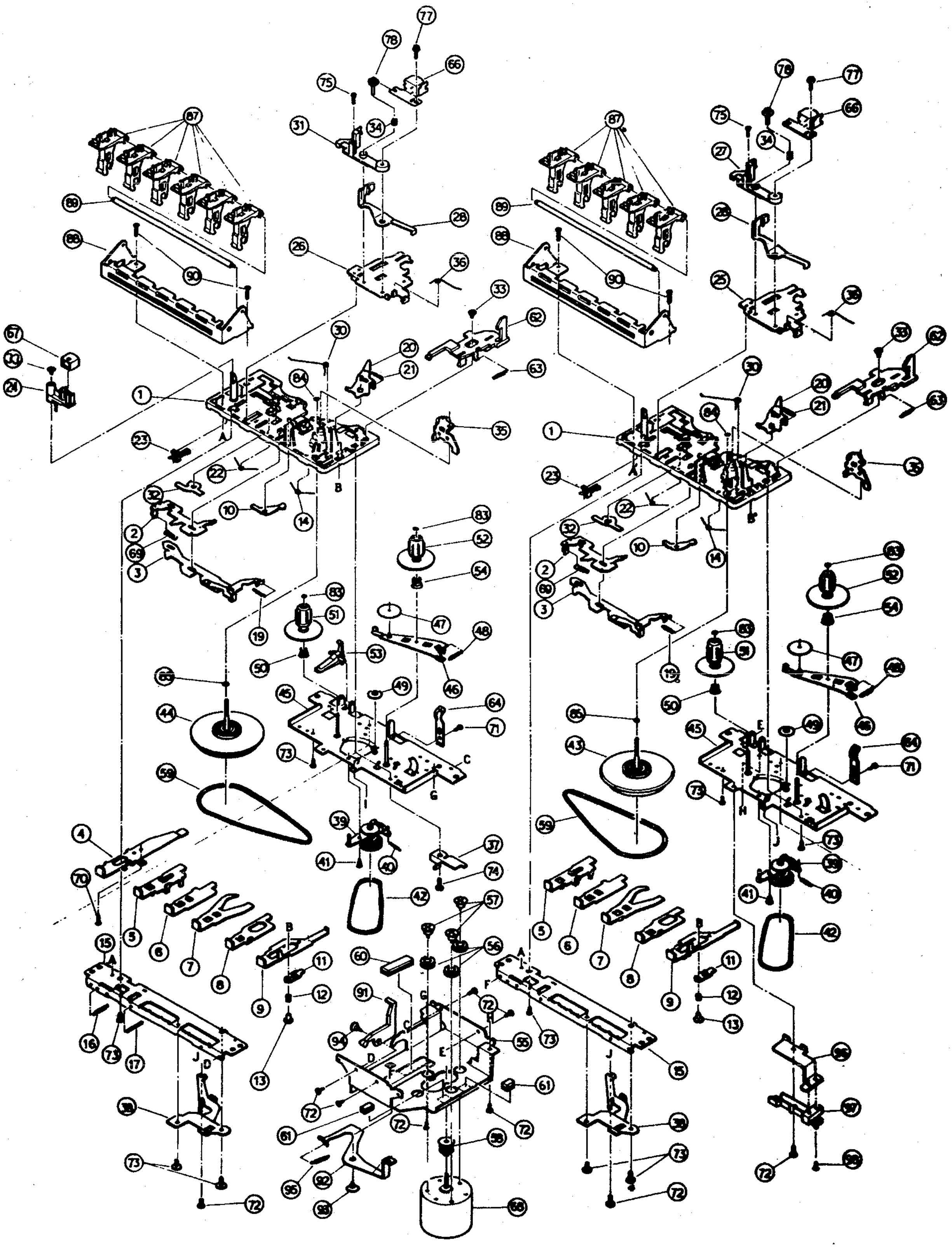
ACD-4250 EXPLODED PART LIST

NO.	CODE NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
1	9CD0116400	CABINET FRONT	MIPS (MI-250, M-326)	1	
2	9CD1000800	DECORATION FRONT	ACRYL (DELPET 60N)	1	
3	9CD1801700	DOOR CASS A	MIPS (MI-250, M-326)	1	
4	9CD1801800	DOOR CASS B	MIPS (MI-250, M-326)	1	
5	9CD1603000	WINDOW DOOR A	ACRYL (DELPET 60N)	1	
6	9CD1603100	WINDOW DOOR B	ACRYL (DELPET 60N)	1	
7	9CD0901400	PLATE DECO	PVC SHEET T1.0	1	
8	97A2200100	MIRROR	A 1200S T0.3	2	
9	9713008900	SPRING C HOLDER	STS T0.2	4	RT-7016
10	9CD3003500	SPRING DOOR	STS 304 D0.8	2	
11	9731310600	KNOB VR	ABS (HI-151, ABS-750)	1	AMC-690
12		NUT		1	
13	9710801100	CUSHION FOOT	HARD SPONGE	4	
14	97D2700100	GEAR DAMPER	ACETAL M-0.8	2	ACS-705
15	97D0412500	CASE DAMPER GEAR	ABS-750, HI-151	2	ACS-705
16	9CD2404400	BRKT SIDE FIX A	SECC T1.0	4	
17	9CD1308500	KNOB DECK	ABS (ABS-750, HI-151)	11	
17-1	9CD13085P0	KNOB DECK PLAY	ABS (ABS-750, HI-151)	1	
17-2	9CD1308600	KNOB DECK PLAY		1	
18	9736007100	DECK MECHANISM	TN-521 ZSW-244	1	AUTO REVERSE
18-1	9CD6001100	DECK MECHANISM	ADR-1114 FW	1	AUTO STOP
19	9CD2404800	BRACKET REC	MIPS	1	AUTO REVERSE
20	4710302000	LUG EGG	BSP	2	
21	9CD1308900	KNOB PUSH A	ABS (HI-151, ABS-750)	4	
22	9CD1309000	KNOB PUSH B	ABS (HI-151, ABS-750)	3	
23	9CD2502400	GUIDE PCB L	SECC T1.0	1	
24	9CD2502500	GUIDE PCB R	SECC T1.0	1	
25	9711324500	KNOB POWER	ABS (HI-151, ABS-750)	1	AV-330
26	9CD1308800	KNOB CD FUNCTION	ABS (HI-141, ABS-750)	1	
27	9CD1308700	KNOB TUNER FUNCTION	ABS (HI-151, ABS-750)	1	
28	9CD0403600	COVER LCD C	ABS (HI-151, ABS-750)	1	
29	9CD0403300	COVER LCD T	ABS (HI-151, ABS-750)	1	
30	9CD0901900	PLATE LCD CD	PVC SHEET T1.0	1	
31	9CD0902000	PLATE LCD TUNER	PVC SHEET T1.0	1	
32		LCD CD		1	
33		LCD TUNER		1	
34	9712308600	HOLDER CD DECK	ABS (HI-151, ABS-750)	2	
35	9CD4204800	RUBBER CD CUSHION	SILLICON RUBBER	4	
36	9CD6000301	DECK MECHANISM	KSM-210B-DM	1	

NO.	CODE NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
37	9CD0400500	COVER PICK UP	SECC T0.5	1	
38	9714402100	HEAT SINK TR	BSB	1	ACD-230
39	9CD4201700	CUSHION PICK UP	RUBBER	1	
40	9712604300	DAMPER GEAR	ACETAL (POM, M90)	1	
41	9712604400	DAMPER BASE	ABS (HF-380, ABS-780)	1	
42	9CD2601100	HOOK CD DOOR	ACETAL (M90)	1	
43		SWITCH LEVER		1	
44	9CD3002600	SPRING CD OPEN	STS 304 D=0.6	2	
45	9CD1308400	KNOB CD OPEN	ABS (ABS−750, HI-151)	1	
46	9CD0116700	CABINET TOP	MIPS (MI-250, M-326)	1	
47	9CD3002500	SPRING CD DOOR	STS-304	1	
48	9716804900	ANT ROD	DW-6 TYPE	1	
49	9CD1900300	HANDLE	ABS (ABS-750, HI-141)	2	
50	9CD1603200	WINDOW CD DOOR	ACRYL (DELPET 60N)	1	
50-1					
51	9CD1801900	DOOR CD	MIPS (MI-250, M-326)	1	
52	9CD2A00400	CHUCK PLATE D	SECC T0.5	1	
53	9CD5400300	MAGNET	FERRITE T5.0	1	
54	9CD2502300	GUIDE CHUCK	ABS (HI-151, ABS-750)	1	
55	9CD2A00300	CHUCK PLATE C	ABS	1	
56	9CD4400600	HEAT SINK	AL T2.0	1	ACD-4100
57	9CD0116600	CABINET BACK	MIPS (MI-250, M-326)	1	
58	9710405700	COVER BATTERY	HI-425, GP-125	1	RT-7016
59	9713010701	SPRING BATT A	PW-1 D=1.0	1	AV-330
60	9713010901	SPRING BATT B	PW-1 D=1.0	2	AV-330
61	9CD9304600	LABEL SPEC	PE FILM	1	
62	4710435300	COVER VOLT SEL	A1200S	1	ARW-370
63	9713009102	SPRING	PW-1 D=1.0	1	AV-330
64	9716404700	CONTACT BATT A	BSP T0.3	1	ACD-240
65	9CD3003400	SPRING BASE	STS T0.3	1	ACD-6200
66	9716404900	CONTACT (CLOCK)	BSP T0.3 NI	1	RT-8046
67	9CD3003300	SPRING BATT	PW-1 D0.5	1	ACD-6200
P1		PCB VR LED			
P2	9CD6559406	PCB BALANCE		1	
P3	9CD6559404	PCB VR		1	
P4	9CD6559403	PCB FUNCTION		1	
P5	9CD6559400	PCB MAIN		1	
P6	9CD6559405	PCB POWER		1	
P7	9CD6559502	PCB CD CONTROL		1	
P8	9CD6559408	PCB CD LED		1	

NO.	CODE NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
P9	9CD6559407	PCB TUNER LED		1	
P10	9CD6559402	PCB TUNER CONTROL		1	
P11	PCD6559401	PCB CONTROL		1	
P12	9CD6556600	PCB CD		1	
P13	9CD6559500	PCB POWER		1	
P14	9CD6559501	PCB JACK		1	
P15		PCB LED DIRECTION		1	
T1	7173200411	SCREW TAPTITE	TT2 BIN 2×4 MFZN	3	
T2	7173260811	SCREW TAPTITE	TT2 BIN 2.6×8 MFZN	7	
T3	7173300811	SCREW TAPTITE	TT2 BIN 3×8 MFZN	29	
T4	7173301011	SCREW TAPTITE	TT2 BIN 3×10 MFZN	11	
T5	7173301012	SCREW TAPTITE	TT2 BIN 2×4 MFZN	2	
T7	7273200411	SCREW TAPTITE	TT3 BIN 2×4 MFZN	2	
T8	7175300812	SCREW TAPTITE	TT2 FLT 3×8 MFZN BK	8	
W1		WASHER	d3.2 D12	5	
W2		WASHER (FIBBER)	d3.2 D8 0.5T	2	
M1	7005300612	SCREW MACHINE	FLT 3×6 MFZN BK	4	
M2	7003301012	SCREW MACHINE	BIN 3×10 MFZN BK	1	

1) CASSETTE SECTION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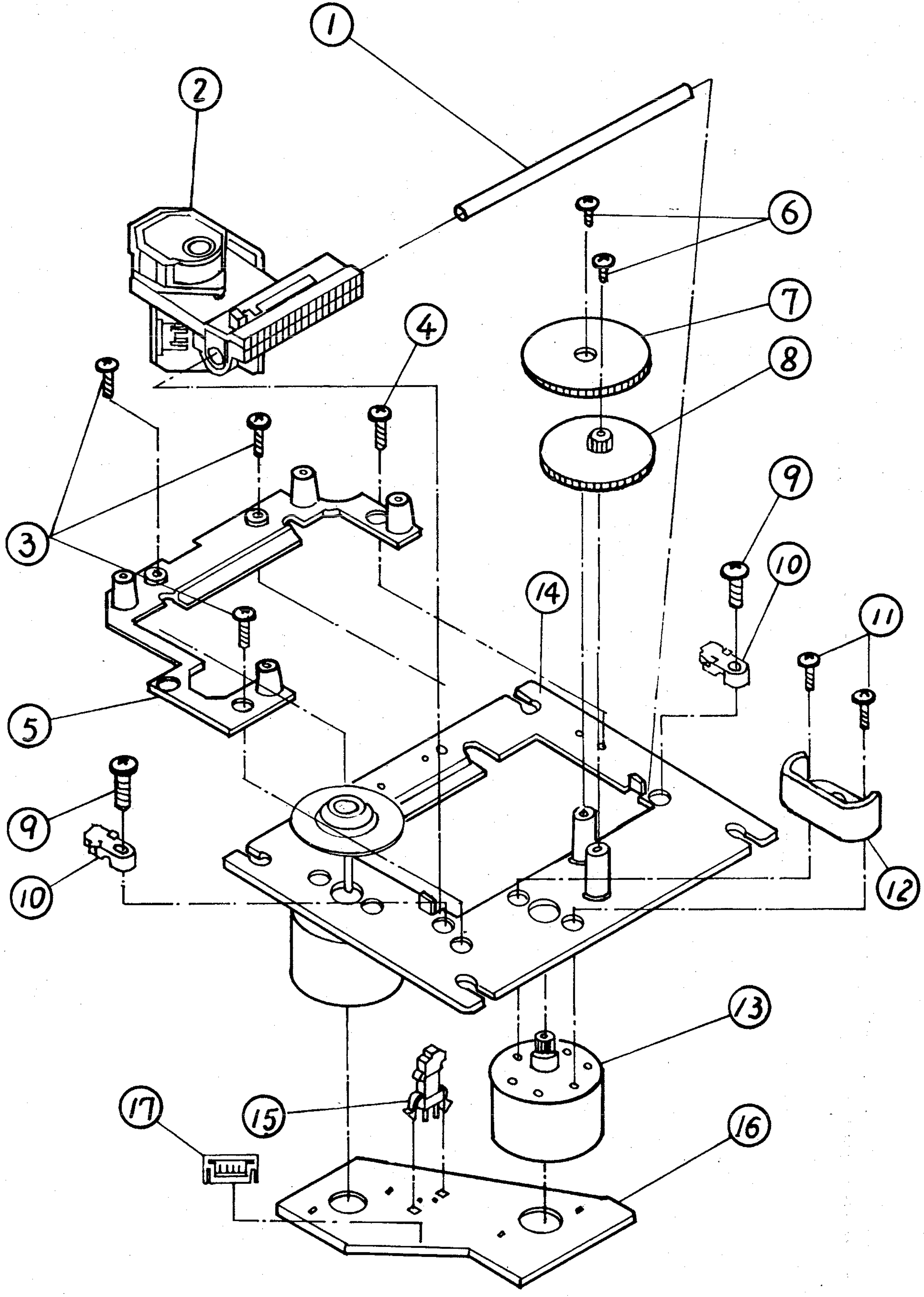
PARTS LIST

NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
1	MAIN BASE ASS'Y	1821 01 06	2	
2	SWITCH PLATE	1821 01 05	2	
3	PUSH BUTTON ACTUATOR ASS'Y	1821 01 507	2	
4	REC BUTTON LEVER	1821 01 28A	1	
5	PLAY BUTTON LEVER	1821 01 35	2	
6	RWD BUTTON LEVER	1821 01 30	2	
7	FF BUTTON LEVER	1821 01 31	2	
8	STOP BUTTON LEVER	1821 01 32	2	
9	PAUSE BUTTON LEVER ASS'Y	1821 01 503	2	
10	RWD LEVER	1821 01 68	2	
11	PAUSE LEVER	1821 01 131	2	
12	PAUSE LEVER SPRING	1821 01 16	2	
13	PAUSE STOPPER	1821 01 34	2	
14	BUTTON LEVER SPRING(C)	1821 01 23	2	
15	SUB PLATE	1821 01 19	2	
16	BUTTON LEVER SPRING(A)	1821 01 19	2	
17	PLAY BUTTON LEVER SRING(S)	1821 01 50	1	
18				
19	ACTUATOR SPRING	1821 01 22	2	
20	AUTO LEVER	1821 01 62	2	
21	AUTO LEVER SPRING	1821 01 21	2	
22	BUTTON LEVER SPRING(B)	1821 01 13	2	
23	LEAF SWITCH	MSW-1541T	2	
24	MS SCREW	1821 39 12	3	
25	HEAD PANEL	1821 03 10	2	
26				
27	HEAD BASE	1821 03 02	2	
28	SENSING PLATE ASS'Y	1821 03 301	2	
29	E.H. SPRING(S)	1821 03 08	1	
30	HEAD PANEL(S)	1821 03 12	2	
31	MG ARM	1821 03 05	1	
32	P.R. STOPPER	1821 01 10	2	
33	P.M.E. SCREW	1821 13 05	2	
34	AZIMUTH SPRING	1821 03 07	2	
35	PINCH ROLLER ARM ASS'Y	1821 04 302	2	
36	PINCH ROLLER SPRING	1821 04 12	2	
37	PAUSE PROTECTION BRACKET	1821 12 76	1	
38	METAL GUIDE	1821 39 19	2	
39	RF CLUTCH ARM ASS'Y	1821 07 309	2	

NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
40	RF PULLEY ARM SPRING	1821 07 04	2	
41	RF ARM COLLER SCREW	1821 07 21	2	
42	RF BELT	1821 07 03	2	
43	FLY WHEEL ASS'Y	1821 09 302	1	
44	FLY WHEEL ASS'Y	1821 09 301	1	
45	REEL BASE ASS'Y	1821 10 505	2	
46	TAKE UP GEAR PLATE ASS'Y	1821 10 512	2	
47	TAKE UP ROLLER GEAR	1821 10 34	2	
48	T.G. PLATE SPRING	1821 10 08	2	
49	FF GEAR	1821 10 70	2	
50	BACK TENSION SPRING	1829 10 10	2	
51	SUPPLY REEL ASS'Y	1821 10 309	2	
52	TAKE UP REEL ASS'Y	1821 10 339	2	
53	RECORD SAFETY LEVER	1821 10 69	1	
54	BACK TENSION SPRING	1821 10 97	2	
55	MOTOR BRACKET	1821 12 59	1	
56	MOTOR RUBBER	1820 13 06	3	
57	COLLER SCREW	1820 13 05	3	
58	MOTOR PULLEY	1821 12 54	1	
59	MAIN BELT	1821 12 21	2	
60	ANTI VIBRATION FELT MAT	1821 12 51	1	
61	ANTI VIBRATION FELT MAT	1821 12 78	2	
62	EJECT SLIDE LEVER	1821 13 06	2	
63	EJECT SLIDE LEVER SPRING	1821 13 02	2	
64	PACK SPRING	1829 10 01	2	
65	P. HEAD (SANKYO)	MS15P-AAONI.	1	
66	R.P. HEAD (SANKYO)	MS15R-AAZNI.	1	
67	E. HEAD (MATAUSHITA)	EMH-EA60B	1	
68	MOTOR (MABUCHI)	EG-500YD-2B.	1	
69	SWITCH ACTUATOR SPRING	1821 01 38	2	
70	TAMS SCREW M2×3		1	
71	C TAPPING SCREW M2×3	9179 00 00	2	
72	C TAPPING SCREW M2×4	9180 00 00	9	
73	P TAPPING BIND SCREW M2×5	9679 00 00	9	
74	P TAPPING SCREW M2×6	9674 00 00	1	
75	SCREW M2×6	9004 00 00	1	
76	(+) (−) CAP SCREW M2×8	9821 00 00	2	
77	(+) (−) CAP SCREW M2×7	9820 00 00	2	
78	AZIMUTH SCREW	9922 00 00	2	
79	LEAF SWITCH MSW-1421TNBK	6401 01 70	1	
80	SWITCH BK T	1821 35 16	1	

NO.	PARTS NAME	DESCRIPTION	Q'TY	REMARK
81	SCREW 2×4	9002 00 00	1	
82	CAP TAPPING SCREW 2×5	9181 00 00	1	
83	P WASHER CUT 1.2×3.8×0.4	9933 00 00	4	
84	P WASHER CUT 1.55×3.8×0.5	9875 00 00	2	
85	P WASHER 2.05×4×0.5	9999 00 04	2	
86				
87	OPERATION LEVER	1821 31 07	11	
88	B FRAME(S)	1821 31 06	2	
89	BUTTON LEVER SHAFT	1829 31 03	2	
90	SCREW (FOR CAMERA) M2×7	9982 00 00	4	
91	P KICK LEVER(B)	1821 12 15	1	
92	P KICK LEVER(A)	1821 12 68	1	
93	P.K. COLLER SCREW (A)	1821 12 23	1	
94	P.K. COLLER SCREW (B)	1821 12 24	1	
95	P KICK LEVER SPRING	1821 12 25	1	

2) CD SECTION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PARTS LIST

NO.	DESCRIPTION	PARTS NAME	Q'TY	REMARK
1	4-910-431-02	SLIDE SHAFT	1	
2		PICK UP ASS'Y	2	
3	7-685-783-01	SCREW (TT2 PAN 2×6)	3	
4	7-685-781-01	SCREW (TT2 PAN 2×4)	1	
5	2-641-444-03	CHASSIS HOLDER	1	
6	3-303-809-31	SPECIAL SCREW (M1.7×3)	2	
7	2-641-404-02	GEAR A	1	
8	2-641-403-06	GEAR B	1	
9	2-641-447-01	SPECIAL SCREW TAPPING 2.6×8 (1)	2	
10	2-641-448-02	SHAFT CLAMPER	2	
11	7-621-255-25	SCREW MACHINE (PIN 2×4)	2	
12	2-641-434-21	GEAR COVER	1	
13	X-2640-770-1	SLED MOTOR ASS'Y	1	
14		MAIN CHASSIS	1	
15	1-570-822-21	LEAF SWITCH	1	
16	1-623-947-11	MOTOR P.C.B.	1	
17	1-564-722-11	CONNECTOR (6P)	1	

PART LIST

■ 9CDC017801

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
1000	9CDC008601	PCB TUNER MAIN AS	ACD-4250V
BF001	5PPFWB4---	FILTER BANDPASS	PFWB4
B0000	9CD6559400	PCB MAIN	330×247×T1.6 1V0
CF001 CF201	5PE107MS2A	FILTER CERA	SFE107MS2-A
CF202	5PCSB456F-	FILTER RESONATOR	CSB45618
CF203	5PCDA107MG	FILTER DISCRIMINATOR	CDA 10.7MG-18
CF204	5PSFZ450HL	FILTER CERAMIC	SFZ450HL
CW101	9CD88924U0	CONN AS	14P 250MM BOARD IN
CW401	97188824U0	CONN AS	3P 150MM SHIELD
CW502	97188824U0	CONN AS	3P 150MM SHIELD
CW503	9CD88928U0	CONN AS	#22 4P 250MM BOARD IN
CW505	97688803U0	CONN AS	AWG22 2P 400MM RIBBON
CW601	9CD88929U0	CONN AS	#26 10P 350MM
CW604	97D88588U0	CONN AS	#2547 2P SHIELD 3P
CW605	9CD88714U0	CONN AS	6P 350MM SHIELD
CW801	9CD88913U0	CONN AS	#26 3P 300MM BOARD IN
CW802	9CD88914U0	CONN AS	#26 12P 250MM BOARD IN
CW803	9CD88915U0	CONN AS	#26 5P 350MM BOARD IN
CW806	9CD88917U0	CONN AS	#26 2P 250MM BOARD IN
CW902	9CD88928U0	CONN AS	#22 4P 250MM BOARD IN
CW903	97588753U0	CONN AS	#26 1007 6P 200MM BOARD
CW904	9CD88923U0	CONN AS	#26 2P 350MM BOARD IN
CW905	9CD88922U0	CONN AS	#26 3P 300MM BOARD IN
CW906	9CD88923U0	CONN AS	#26 3P 330MM BOARD IN
CW908	9CD88710U0	CONN AS	AWG26 2P 450MM
C001	CXCH1H150K	C CERA	CH 50V 15PF K
C001B	CEXE1H339A	C ELECTRO	50V3.3UF
C002	CCXF1H102Z	C CERA	HIKF 50V 1000PF Z
C003	CXCH1H509D	C CERA	CH 50V 5PF D TAPING
C004	CCXF1H103Z	C CERA	HIKF 50V 0.01MF Z
C006	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C008	CKCH1H150J	C CERA	CH 50V 15PF J
C010	CKCH1H409K	C CERA	CH 50V 4PF K
C011 ~C013	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C014	CCXF1H102Z	C CERA	HIKF 50V 1000PF Z
C015	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C016	CCXF1H102Z	C CERA	HIKF 50V 1000PF Z
C017	CXCH1H150J	C CERA	CH 50V 15PF J
C018	CCXF1H223Z	C CERA	HIKF 50V 0.022MF
~C020			
C021	CKCH1H509K	C CERA	CH 50V 5PF K
C101, 103, 104	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C105	CKCH1H150J	C CERA	CH 50V 150PF J
C106	CSYS1H421J	C STYROL	50V 420PF J
C107 C201	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C202	CCXF1H103Z	C CERA	HIKF 50V 0.01MF Z
C203 C204	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C205	CEXE1A101A	C ELECTRO	10V 100MF RS
C206	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C207	CCXF1H103Z	C CERA	HIKF 50V 0.01MF Z
C208	CEXE1H478A	C ELECTRO	50V 0.47MF RS
C209	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C211	CCKF1E223Z	C CERA	HIKD 25V 0.022MF
C212	CMXM1H823J	C MYLAR	50V 0.082MF J
C213	CMXM1H683J	C MYLAR	50V 0.068MF J
C214	CMXM1H823J	C MYLAR	50V 0.082MF J
C215	CXSL1H331J	C CERA	SL 50V 330PF J
C216	CMXM1H153J	C MYLAR	50V 0.015MF J
C217	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C218	CXSL1H201J	C CERA	SL 50V 200PF J R/T
C219 ~C221	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C222	CEXE1A101A	C ELECTRO	10V 100MF RS
C223L	CMXM1H103J	C MYLAR	50V 0.01MF J
C223R	CMXM1H103J	C MYLAR	50V 0.01MF J
C224L	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C224R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C225L	CMXM1H333J	C MYLAR	50V 0.033MF J
C225R	CMXM1H333J	C MYLAR	50V 0.033MF J
C226	CEXE1C330A	C ELECTRO	16V 33MF RS
C227	CEXE1A101A	C ELECTRO	10V 100MF RS
C228	CEXE1C100A	C ELECTRO	16V 10MF RS
C229	CEXE1C470A	C ELECTRO	16V 47MF RS
C230	CXCH1H330J	C CERA	CH 50V 33PF J
C231	CCXF1H103Z	C CERA	HIKF 50V 0.01MF Z

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C232	CEXE1C100A	C ELECTRO	16V 10MF RS
C233	CXCH1H101J	C CERA	CH 50V 100PF J
C234	CEXE1C100A	C ELECTRO	16V 10MF RS
C235	CEXE1C100A	C ELECTRO	16V 10MF RS
C236	CEXE1H109A	C ELECTRO	50V 1MF RS
C301	CMXM1H103J	C MYLAR	50V 0.01MF J
C302	CEXE1H109A	C ELECTRO	50V 1MF RS
C303 C304	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C305	CEXE1A221A	C ELECTRO	10V 220MF RS
C306	CMXM1H332J	C MYLAR	50V 3300PF J
C401L,R C402L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C403L,R	CMXM1H122J	C MYLAR	50V 0.0012MF J
C404L,R	CMXM1H472J	C MYLAR	50V 0.0047MF J
C405L,R C406L,R	CEXE1H108A	C ELECTRO	50V 0.1MF RS
C407L,R	CMXM1H563J	C MYLAR	50V 0.056MF J
C408L,R	CMXM1H123J	C MYLAR	50V 0.012MF J
C409L,R C410L,R C411L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C412L,R	CXCH1H221J	C CERA	CH 50V 220PF J
C413L,R	CMXM1H682J	C MYLAR	50V 0.0068MF J
C414L,R	CMXM1H333J	C MYLAR	50V 0.033MF J
C415L,R	CMXM1H122J	C MYLAR	50V 0.0012MF J
C416L,R	CEXE1H228A	C ELECTRO	50V 0.22MF RS
C417L	CMXM1H333J	C MYLAR	50V 0.033MF J
C417R	CMXM1H333J	C MYLAR	50V 0.033MF J
C418L,R	CEXE1H109A	C ELECTRO	50V 1MF RS
C419L,R	CMXM1H103J	C MYLAR	50V 0.01MF J
C420L,R C421L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C422	CEXE1A101A	C ELECTRO	10V 100MF RS
C423	CEXE1A221A	C ELECTRO	10V 220MF RS
C511	CMXM1H104J	C MYLAR	50V 0.1MF J
C601L,R	CXCH1H151J	C CERA	CH 50V 1500PF J
C602L,R C603L,R	CXSL1H561J	C CERA	SL 50V 560PF J
C604L,R	CMXM1H182J	C MYLAR	50V 1800PF J
C605L,R	CEXE1A470A	C ELECTRO	10V 47MF RS
C606	CEXE1C100A	C ELECTRO	16V 10MF RS
C607L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C608L,R	CMXM1H562J	C MYLAR	50V 5600PF J
C609L,R	CEXE1A470A	C ELECTRO	10V 47MF RS
C610L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C611L,R	CXCH1H390J	C CERA	CH 50V 39PF J
C612L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C613L,R	CMXM1H222J	C MYLAR	50V 2200PF J
C614	CEXE1A470A	C ELECTRO	10V 47MF RS
C615	CEXE1C100A	C ELECTRO	16V 10MF RS
C616	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C617L,R	CMXM1H183J	C MYLAR	50V 0.018MF J
C618	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C619	CEXE1C100A	C ELECTRO	16V 10MF RS
C620L,R	CXCH1H680J	C CERA	CH 50V 68PF J
C621	CXCH1H221J	C CERA	CH 50V 220PF J
C622	CMXM1H222J	C MYLAR	50V 2200PF J
C623	CMXM1H332J	C MYLAR	50V 3300PF J
C624	CEXE1H109A	C ELECTRO	50V 1MF RS
C625	CEXE1A101A	C ELECTRO	10V 100MF RS
C626	CMXM1H103J	C MYLAR	50V 0.01MF J
C627	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C628	CEXE1H339A	C ELECTRO	50V 3.3MF RS
C629	CEXE1C221A	C ELECTRO	16V 220MF RS
C630	CEXE1H229A	C ELECTRO	50V 2.2MF RS
C631 C632	CEXE1H109A	C ELECTRO	50V 1MF RS
C633	CEYE1H339A	C ELECTRO	50V 3.3MF
C906	CEXE1A471A	C ELECTRO	10V 470MF RS
C907 C908	CEXE1C101A	C ELECTRO	16V 100MF RS
C909	CEXE1H109A	C ELECTRO	50V 1MF RS
C910	CEXE1C221A	C ELECTRO	16V 220MF RS
C911	CEXE1C101A	C ELECTRO	16V 100MF
D001	DKSS133---	DIODE	1SS133
D002 D003	D1SV147---	DIODE	1SV-147
D004	DKSS133---	DIODE	1SS133
D101 D102	D1SV149---	DIODE	1SV-149
D103	DKN4148---	DIODE	KN4148
D201	DKSS133---	DIODE	1SS133
D202	DKN4148---	DIODE	KN4148
D203	DKTZ5R6A--	DIODE ZENER	MTZ-5.6
D204,D205 D206	DKSS133---	DIODE	1SS133

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
D207 D601	DKN4148---	DIODE	KN4148
D602 D603	DKSS133---	DIODE	1SS133
D604 D605	DKN4148---	DIODE	KN4148
D905	DKTZ6R8A--	DIODE ZENER	MTZ 6.8
D906	DKSS133---	DIODE	1SS133
D908	DKTZ9R1A--	DIODE ZENER	MTZ-9.1
D909 D910, D913	DKSS133---	DIODE	1SS133
D914	DKTZ8R2A--	DIODE ZENER	MTZ-8.2 26MM
IC001	1DBL1017--	IC	DBL1017
IC201	1K1A8132N-	IC	KIA8132N
IC401	1BA3824LS-	IC	BA3824LS
IC601	1K1A8189N-	IC	KIA8189N
JW101 ~JW230	W581GY1005	WIRE JUMPER	AWG22 1/0.65 SN 10 AUTO
J301	9766318110	JACK HEADPHONE	SHQ9075-01-040
J501	9766318110	JACK HEADPHONE	SHQ9075-01-040
L001	5L00000587	COIL FM OSC	0.5×3×5 AND 1/2T
L002	5L00000630	COIL FM OSC	0.6×4×3.1/2T CW
L101	5LA0000566	COIL AM ANT	FA92 3107 W/BAR. HOLDER
L102	5L0111K651	COIL MW OSC	110UH 7×7 CAN
L201	5L00000573	COIL DC OSC	7×7 2.8MM 3% Q=50 (5144)
L601L	5LC333K505	COIL CHOKE	33MH
L601R	5LC333K505	COIL CHOKE	33MH
L602	5L00000581	COIL BIAS OSC	80 KHz
Q001	TZTC1923Y-	TR	KTC-1923Y
Q002	TZTA1015Y-	TR	KTA1015-Y
Q003	TZTC1815Y-	TR	KTC1815-Y
Q004 Q101	TZTC1923Y-	TR	KTC-1923Y
Q102	TKTC2878B-	TR	KTC2878B
Q103 Q104	TZTA1015Y-	TR	KTA1015-Y
Q201	TKTK161Y--	FET	KTK151 (Y)
Q202 Q203	TZTC181Y-	TR	KTC1815-Y
Q204L,R	TZTC1815Y-	TR	KTC1815-Y
Q205 Q206	TZTC1815GR	TR	KTC1815-GR
Q207	TZTC1815Y-	TR	KTC1815-Y

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
Q301 Q302	TZTC1815GR	TR	KTC1815-GR
Q401L,R	TZTC1815GR	TR	KTC1815-GR
Q402L,R	TZTC1815GR	TR	KTC1815-GR
Q601L,R	TZTC1815Y-	TR	KTC1815-Y
Q602L,R	TZTC1815Y-	TR	KTC1815-Y
Q603L,R	TKTC2878B-	TR	KTC2878B
Q604L,R	TKTC2878B-	TR	KTC2878B
Q605 Q608 Q610 Q612	TZTA1015Y-	TR	KTA1015-Y
Q606 Q607 Q609 Q611	TZTC1815Y-	TR	KTC1815-Y
Q901	TZTC2236Y-	TR	KTC2236-Y
Q902	TZTC1815Y-	TR	KTC1815-Y
Q903	TZTB1366Y-	TR	KTB1366Y
Q904	TKTD1406Y-	TR	KTD1406Y-
RV601	RV1417472-	R SEMI FIXED	1/10 4.7K OHM B V6EK-PV1S
R002	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J
R003	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R004	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R005 ~R007	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R008	RD-AZ220JK	R CARBON FILM	1/6 22 OHM J
R009 R010	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J
R011	RD-AZ224JK	R CARBON FILM	1/6 220K OHM J
R012	RD-AZ471JK	R CARBON FILM	1/6 470 OHM J
R013	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R014	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R015	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R016	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R017	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R018	RD-AZ561JK	R CARBON FILM	1/6 560 OHM J
R019	RD-AZ681JK	R CARBON FILM	1/6 680 OHM J
R020	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R021	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R101 R102	RD-4Z104JK	R CARBON FILM	1/4 100K OHM J
R103	RD-4Z224JK	R CARBON FILM	1/4 220K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R104	RD-4Z104JK	R CARBON FILM	1/4 100K OHM J
R105	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R106	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R107 ~R109	RD-4Z822JK	R CARBON FILM	1/4 8.2K OHM J
R110	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R201	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R202	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R203	RD-4Z221JK	R CARBON FILM	1/4 220 OHM J
R204	RD-4Z271JK	R CARBON FILM	1/4 270K OHM J
R205 R211	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R212	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R213	RD-4Z470JK	R CARBON FILM	1/4 470 OHM J
R214	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R215	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R216	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R217	RD-AZ221JK	R CARBON FILM	1/6 220 OHM J
R218	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R219	RD-4Z680JK	R CARBON FILM	1/4 68 OHM J
R220	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R221L,R	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R222L,R	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R223L,R	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R224	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R225	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R226	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R227	RD-4Z680JK	R CARBON FILM	1/4 68 OHM J
R228	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R229	RD-AZ124JK	R CARBON FILM	1/6 12K OHM J
R230	RD-AZ393JK	R CARBON FILM	1/6 39K OHM J
R231	RD-AZ824JK	R CARBON FILM	1/6 820K OHM J
R232	RD-AZ124JK	R CARBON FILM	1/6 120K OHM J
R233	RD-4Z822JK	R CARBON FILM	1/4 8.2K OHM J
R234	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R235	RD-AZ272JK	R CARBON FILM	1/6 27K OHM J
R236	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM
R301	RD-AZ563JK	R CARBON FILM	1/6 56K OHM J
R302	RD-AZ474JK	R CARBON FILM	1/6 470K OHM J
R303	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R304	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R305	RD-AZ680JK	R CARBON FILM	1/6 68 OHM J
R306	RD-AZ474JK	R CARBON FILM	1/6 470K OHM J
R307	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R308	RD-AZ271JK	R CARBON FILM	1/6 270 OHM J
R309	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J 26MM
R310L,R	RD-4Z472JK	R CARBON FILM	1/4 47K OHM J
R401L,R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R402L,R	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R403	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J 26MM
R404	RD-4Z221JK	R CARBON FILM	1/4 220 OHM J
R405L,R	RD-AZ563JK	R CARBON FILM	1/6 56K OHM J
R406L,R	RD-AZ273JK	R CARBON FILM	1/6 27K OHM J
R407L,R	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R408L,R	RD-AZ221JK	R CARBON FILM	1/6 220 OHM J
R409L,R	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R410L,R	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R411L,R	RD-AZ225JK	R CARBON FILM	1/6 2.2K OHM J
R412L,R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R413L,R	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R414L,R	RD-AZ152JK	R CARBON FILM	1/6 1.5K OHM J
R415L,R	RD-AZ272JK	R CARBON FILM	1/6 2.7K OHM J
R416L,R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R417L,R	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R418L,R	RD-4Z104JK	R CARBON FILM	1/4 100K OHM J
R419L,R	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R424L,R	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R425L,R	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R426L,R	RD-AZ394JK	R CARBON FILM	1/6 390K OHM J 26MM
R427L,R	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R515L,R	RD-4Z151JK	R CARBON FILM	1/4 150 OHM J
R601L,R	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R602L,R	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R603L,R	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R604L,R	RD-AZ184JK	R CARBON FILM	1/6 180K OHM J
R605L,R	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R606L,R	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R607L,R	RD-AZ682JK	R CARBON FILM	1/6 6.8K OHM J
R608	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R609	RD-4Z221JK	R CARBON FILM	1/4 220 OHM J
R610L,R	RD-AZ184JK	R CARBON FILM	1/6 180K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R611L,R	RD-AZ334JK	R CARBON FILM	1/6 330K OHM J
R612L,R	RD-AZ271JK	R CARBON FILM	1/6 270 OHM J
R613L,R	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R614	RD-4Z822JK	R CARBON FILM	1/4 8.2K OHM J
R615L,R	RD-4Z393JK	R CARBON FILM	1/4 39K OHM J
R616	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R617L,R	RD-4Z222JK	R CARBON FILM	1/4 2.2K OHM J
R618L,R	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R619L,R	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R620	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R621	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R622	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R623	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R624L,R	RD-4Z222JK	R CARBON FILM	1/4 2.2K OHM J
R625L,R	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R626	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R627	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R628	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R629	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R630L,R	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R631	RD-4Z100JK	R CARBON FILM	1/4 10 OHM J
R632	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R633	RD-4Z222JK	R CARBON FILM	1/4 2.2K OHM J
R634	RD-AZ479JK	R CARBON FILM	1/6 4.7 OHM J
R635	RD-AZ102JK	R CARBON FILM	1/4 1K OHM J
R636	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R637	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R638	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R639	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R640	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R641	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R642	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R643	RD-4Z332JK	R CARBON FILM	1/4 3.3K OHM J
R644	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R645	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R646	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R647	RD-4Z333JK	R CARBON FILM	1/4 33K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R648	RD-4Z223JK	R CARBON FILM	1/4 22K OHM J
R649	RD-4Z100JK	R CARBON FILM	1/4 10 OHM J
R650	RD-4Z222JK	R CARBON FILM	1/4 2.2K OHM J
R651	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R652	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R653	RD-4Z333JK	R CARBON FILM	1/4 33K OHM J
R654	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R655	RD-4Z472JK	R CARBON FILM	1/4 4.7K OHM J
R656	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R657	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R901	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R902	RD-4Z220JK	R CARBON FILM	1/4 22 OHM J
R903	RD-4Z221JK	R CARBON FILM	1/4 220 OHM J
R904	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R905	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R906	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R907	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R908	RD-4Z181JK	R CARBON FILM	1/4 180 OHM J
R909	RD-4Z560JK	R CARBON FILM	1/4 56 OHM J
R910	RD-4Z151JK	R CARBON FILM	1/4 150 OHM J
R911	RF-4Y100J—	FUSIBLE	1/4 10 OHM J
R912	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R913	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R916	RD-AZ560JK	R CARBON FILM	1/6 56 OHM J
R918	RD-4Z560JK	R CARBON FILM	1/4 56 OHM J
SW401	5S40202300	SW PUSH	SPUY19SM 2C-2P
SW402	5S40206302	SW PUSH	SPUY34×RT 2C-2P×3
TC001 TC101	97576501G0	TRIMMER	TZ03R200FR
T001	5107FOR137	IFT FM DET	7×7 ORANGE HMJ-020-015
T201	5107AYW143	IFT AM	7×7 7MC-45050N-KR YELLOW
VR401 ~VR404	5V2104600W	VR SLIDE	S102HKA-100KM×2

■ 9CDC013201

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
11000	9CDC013201	PCB POWER AS	ACD-4250U
B000	9CD6559500	PCB POWER	247×122×T1.6 1V0
CN501	9CD88919U0	CONN AS	3P 500M BOARD IN
CN902	9CD88928U0	CONN AS	#22 4P 250MM BOARD IN
CN903	97588753U0	CONN AS	#26 1007 6P 200MM BOARD
CW901	97188826U0	CONN AS	AWG22 2P 200MM RIBBON
C501	CEXE1C100A	C ELECTRO	16V 10MF RS
C502	CEXE1C221A	C ELECTRO	16V 220MF RS
C503L,R	CCYB1H561K	C CERA	HIKB 50V 560PF K
C504L,R	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C505L,R	CEXE1C470A	C ELECTRO	16V 47MF RS
C506	CEXE1C101A	C ELECTRO	16V 100MF RS
C507L,R	CEXE1C101A	C ELECTRO	16V 100MF RS
C508L,R	CEYE1A102A	C ELECTRO	10V 1000MF RS
C509L,R	CMYM1H154J	C MYLAR	50V 0.15MF J
C510	CEXE1C479A	C ELCTRO	16V 4.7MF RS
C901 ~C904	CCXF1H223Z	C CERA	HIKF 50V 0.022MF Z
C905	CEYE1E332A	C ELECTRO	25V 3300MF RS
D901 ~D904	DRL202----	DIODE	RL202
FC905	9734600700	CLIP FUSE	FC-5N
FC906	9734600700	CLIP FUSE	FC-5N
F903	5F3GB2522S	FUSE	2.5A T2.5A 250V SEMKO
IC501	1K1A8207K	IC	KIA8207K
JW501 ~JW506	581GY1005	WIRE JUMPER	AWG22 1/0.65 SN 10 AUTO
J901	9716381400	SOCKET AC	HSC1466
PT901	5TPV05700V	TRANS POWER	EI=57 220V 50Hz VDE
Q501L,R	TKTC2878B-	TR	KTC2878B
Q502	TZTC1815Y-	TR	KTC1815-Y
Q503	TZTA1015Y-	TR	KTA1015-Y
•R501L,R	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R502	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R503	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R504	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R505	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R506L,R	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R507L,R	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J

■ 9CDC013301

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
12000	9CDC013301	PCB CD AS	ACD-4250U
B701	9CD6556600	PCB CD	330×163×T1.6 1V0
CN701 CN702	9CD88703U0	CONN AS	AWG30 8P 200MM WH PH
CN703	9CD88625U0	CONN AS	PH6P 200MM WH
CN705	9CD6229200	PIN BLOCK	4P 2.5MM PITCH
CN706	9CD6229300	PIN BLOCK	3P 2.5MM PITCH
CW501	9CD88925U0	CONN AS	#25 7P 200MM BOARD IN
CW704	9CD88619U0	CONN AS	2P UL 1007 AWG26 150MM
CW707 CW708	9CD88927U0	CONN AS	#26 10P 200MM
CW709	9CD88926U0	CONN AS	#26 5P 200MM
CW711	9718851U0	CONN AS	AWG26 3P 250MM SHIELD
CW805	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
C701	CMXM1H222J	C MYLAR	50V 2200PF J
C702	CKCH1H100J	C CERA	CH 50V 10PF J
C703	CCKB1H102K	C CERA	HIKB 50V 1000PF K
C704	CEXE1A101A	C ELECTRO	10V 100MF RS
C705	CEXE1A330A	C ELECTRO	10V 33MF
C706	CEXE1A101A	C ELECTRO	10V 100MF RS
C707 C709	CMXM1H333J	C MYLAR	50V 0.033MF J
C710	CMXM1H103J	C MYLAR	50V 0.01MF J
C711	CEXE1H478A	C ELECTRO	50V 0.47MF RS
C712	CMXM1H103J	C MYLAR	50V 0.01MF J
C713	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C714	CEXE1A330A	C ELECTRO	10V 33MF 5×11
C716 ~C723	CMFM1H104J	C MYLAR	50V 0.1MF J
C724	CEXE1A330A	C ELECTRO	10V 33MF
C725	CMXM1H102J	C MYLAR	50V 0.001MF J
C726	CMXM1H473J	C MYLAR	50V 0.047MF J
C727	CMXM1H222J	C MYLAR	50V 2200PF J
C728	CMFM1H104J	C MYLAR	50V 0.1MF J
C729	CMXM1H333J	C MYLAR	50V 0.033MF J
C730	CEXE1H339A	C ELECTRO	50V 3.3MF RS
C731	CMFM1H104J	C MYLAR	50V 0.1MF J
C732	CEXE1A220A	C ELECTRO	10V 22MF RS
C733	CEYE1H339A	C ELECTRO	50V 3.3MF RS
C734	CMXM1H153J	C MYLAR	50V 0.015MF J
C735	CBKX1C472M	C CERA SEMI	HIKX 16V 4700PF M

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
C736	CEXE1H478A	C ELECTRO	50V 0.047MF RS
C737	CMXM1H333J	C MYLAR	50V 0.033MF J
C738	CCKB1H102K	C CERA	HIKB 50V 1000PF K
C739	CMXM1H472J	C MYLAR	50V 0.0047MF J
C740	CEXE1H109A	C ELECTRO	50V 1MF RS
C741	CEXE1A330A	C ELECTRO	10V 33MF
C742	CEXE1H109A	C ELECTRO	50V 1MF RS
C743	CEXE1E100A	C ELECTRO	25V 10MF RS
C744 ~C746	CEXE1A330A	C ELECTRO	10V 33MF
C747 C748	CXCH1H270J	C CERA	CH 50V 27PF J
C749	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C750 C751	CEXE1A470A	C ELECTRO	10V 47MF RS
C752	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M (26MM)
C753	CEXE1C100A	C ELECTRO	16V 10MF RS
C754	CEXE1E100A	C ELECTRO	25V 10MF RS
C755 C756	CMXM1H122J	C MYLAR	50V 0.0012MF J
C757 C758	CMXM1H332J	C MYLAR	50V 3300PF J
C759 C760	CMXM1H122J	C MYLAR	50V 0.0012MF J
C761 C762	CCKB1H181K	C CERA	HIKB 50V 180PF K
C763 C764	CMXM1H182J	C MYLAR	50V 1800PF J
C765 C766	CKSL1H560J	C CERA	SL 50V 56PF J
C767 C768	CEXE1H109A	C ELECTRO	50V 1MF RS
C770	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C771	CEYE1A471A	C ELECTRO	10V 470MF RS
C772 C773	CEXE1A470A	C ELECTRO	10V 47MF RS
C774	CEXE1A221A	C ELECTRO	10V 220MF RS
C775	CEXE1A101A	C ELECTRO	10V 100MF RS
C776	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C777	CEXE1H479A	C ELECTRO	50V 4.7MF RS
C778 C779	CBXF1H104Z	C CERA SEMI	HIKF 50V 0.1MF Z
C782F	CBYF1H104Z	C CERAM SEMI	HIKF 50V 0.1MF Z
D701	DKSS133---	DIODE	1SS133

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
D702	DKTZ9R1A--	DIODE ZENER	MTZ-9.1
D703	DKTZ5R6A--	DIODE ZENER	MTZ-5.6
FB701 ~FB704	9718601400	CORE BEAD	BF03 RH 3.5×5×.15
IC701	1CXA1081M-	IC	CXA1081M
IC702	1BA6290A--	IC	BA6290A
IC703	1BA6290A--	IC	BA6290A
IC704	1CXA1082BQ	IC	CXA1082BQ
IC705	1KS5990---	IC	KS5990
IC707	1KDA0316--	IC DAC	KDA0316
IC708	1NJM3403AD	IC OP AMP	NJM3403AD
IC709	1CXP5024H-	IC CPU	CXP-5024H062Q
JW000 ~JW075	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
L701	5LF100K642	COIL FILTER	10UH K FIXED
L702F ~L704F	5LC00000700	COIL INDUCTOR	AXIL 170 UH
Q701	TZTA950Y--	TR	KTA950Y
Q702 Q703	TKRC1208--	TR	KRC1208
Q704	TZTC1815GR	TR	KTC18-GR
Q705 Q706	TKTK117Y--	FET	KTK117(Y)
Q707 ~Q710	TKTC1815GR	TR	KTC1815-GR
Q711	TZRA2208--	TR	KRA2208
Q712	TKRC1208--	TR	KRC1208
Q713 Q714	TZTC1815GR	TR	KTC1815-GR
Q715	TKTD2058Y-	TR	KTD2058Y
Q716	TZTC2236AY	TR	KTC2236A-Y
Q717	TZTC1815GR	TR	KTC1815-GR
RV701	RV6217473-	R SEMI FIXED	VW6CK-PH(IS) 47KB
RV702 ~RV704	RV6217223-	R SEMI FIXED	VM6CK-PH(IS) 22KB
RV705	RV6417222-	R SEMI FIXED	VM6CK-PV(IS) 2.2K OHM B
R701	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R702	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R703	RD-AZ100JK	R CARBON FILM	1/6 10 OHM J
R704	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R705	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R706	RD-AZ272JK	R CARBON FILM	1/6 2.7K OHM J
R707	RD-AZ392JK	R CARBON FILM	1/6 3.9K OHM J
R708	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R709	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R710	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R711 ~R718	RD-AZ180JK	R CARBON FILM	1/6 18 OHM J
R719	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R720 ~R726	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R727	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R728	RD-AZ154JK	R CARBON FILM	1/6 150K OHM J
R729	RD-AZ683JK	R CARBON FILM	1/6 68K OHM J
R730 R731	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R732	RD-AZ823JK	R CARBON FILM	1/6 82K OHM J
R733	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R734	RD-AZ823JK	R CARBON FILM	1/6 82K OHM J
R735	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R736	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R737	RD-AZ474JK	R CARBON FILM	1/6 470K OHM J
R738	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R739	RD-AZ105JK	R CARBON FILM	1/6 1M OHM J
R740	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R741	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R742	RD-AZ272JK	R CARBON FILM	1/6 2.7K OHM J
R743	RD-AZ184JK	R CARBON FILM	1/6 180K OHM J
R744	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R745	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
R746	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R747 ~R749	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R750	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R751	RD-AZ392JK	R CARBON FILM	1/6 3.9K OHM J
R752	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R753 R754	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R755 R756	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R757 R758	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R759 R760	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R761 R762	RD-AZ472JK	R CARBON FILM	1/4 4.7K OHM J
R763 ~R766	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R767 ~R770	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R771 ~R772	RD-4Z822JK	R CARBON FILM	1/4 8.2K OHM J
R773 R774	RD-AZ123JK	R CARBON FILM	1/4 12K OHM J
R775 ~R777	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R778	RD-AZ122JK	R CARBON FILM	1/6 1.2K OHM J
R779	RS01Y479J	R M OXIDE FILM	1W 4.7 OHM J
R780 R781	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R782	RD-AZ221JK	R CARBON FILM	1/6 220 OHM J
R783	RD-AZ151JK	R CARBON FILM	1/6 150 OHM J
R784	RD-4Z101JK	R CARBON FILM	1/4 100 OHM J
R785	RD-AZ223JK	R CARBON FILM	1/6 22K OHM J
R786 R787	RD-4Z102JK	R CARBON FILM	1/4 1K OHM J
R788 R789	RD-AZ821JK	R CARBON FILM	1/6 820 OHM J
R790 R791	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R792 ~R794	RD-AZ561JK	R CARBON FILM	1/6 560 OHM J
X701	5XA16R934F	CRYSTAL QUARTZ	HC-18/U 17.93440MHz 50PPM

■ 9CDC013401

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
13000	9CDC13401	PCB LCD AS	ACD-4250U
B002	9CD6559402	PCB LCD	330×247×T1.6 1V0
CW811 ~CW815	9CD6233100	CONNECTOR WAFER	52084-0810(8P)
CW816	9CD6233300	CONNECTOR WAFER	52084-0510 (5P)
D819 ~D822	DKSS133---	DIODE	1SS133 AUTO 26MM
D823	DKN4148---	DIODE	KN4148 AUTO 26MM
D824	DKSS133---	DIODE	1SS133 AUTO 26MM
JW291 ~JW294	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN
LCD01	DLA0647AP-	LCD TUNER	LA-0647AP
RM801	1DHR38N---	IC PREAMP	DHR38N
SW801 ~SW815	5S50101276	SW TACT	KHM-MA-902 (1C-1P)

■ 9CDC013501

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
14000	9CDC13501	PCB FUNCTION AS	ACD-4250U
B003	9CD6559403	PCB FUNCTION	330×247×T1.6 1V0
CN101	9CD88924U0	CONN AS	14P 250MM BOARD IN
CN501	9CD88925U0	CONN AS	#26 7P 200MM BOARD IN
CN906	9CD88923U0	CONN AS	#26 2P 350MM BOARD IN
CW907	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
D911	DKN4148---	DIODE	KN4148 AUTO 26MM
D912	DKSS133---	DIODE	1SS133 AUTO 26MM
JW270 ~JW290	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN 5 AUTO
R916	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R917	RD-4Z223JK	R CARBON FILM	1/4 22K OHM J
SW101	5S40212301	SW PUSH	SPUY34×RT AC-2P×3

■ 9CDC017901

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
15000	9CDC017901	PCB VR AS	ACD-4250U
B004	9CD6559404	PCB VR	330×247×T1.6 1V0
CN502	97188824U0	CONN AS	3P 150MM SHIELD
CN505	97688803U0	CONN AS	AWG22 2P 400MM RIBBON
CW501	9CD88919U0	CONN AS	3P 500MM BOARD IN

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
CW504	9CD88920U0	CONN AS	#26 2P 100MM BOARD IN
CW807	9CD88918U0	CONN AS	#26 2P 150MM BOARD IN
C511	CMYM1H154J	C MYLAR	50V 0.15MF J
C512	CEXE1C101A	C ELECTRO	16V 100MF RS 8×11.5 TAP
C513 C514	CEXE1C100A	C ELECTRO	16V 10MF RS
C515 C516	CMXM1H104J	C MYLAR	50V 0.1MF J
D501	DKTZ6R2A--	DIODE ZENER	MTZ-6.2 26MM TAPPING
IC502	1BA6209---	IC	BA6209
R508 R509	RD-AZ100JK	R CARBON FILM	1/6 10 OHM J
R510	RD-4Z100JK	R CARBON FILM	1/4 10 OHM J
R511	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R512 R513	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R514	RD-AZ100JK	R CARBON FILM	1/6 10 OHM J
VR501	5V1104649A	VR MOTOR	RK16Y12MA 100KA×2

■ 9CDC018001

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
16000	9CDC018001	PCB POWER SW AS	ACD-4250U
B005	9CD6559405	PCB POWER SW	330×247×T1.6 1V0
CN904	9CD88923U0	CONN AS	#26 2P 350MM BOARD IN
CW804	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
C911	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M (26MM)
Q905	TZTC1815Y-	TR	KTC1815-Y (AUTO)
R914	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R915	RD-AZ104JK	R CARBON FILM	1/6 100K OHM J
SW902	5S40202303	SW PUSH	SPUN 19×M 2C-2P

■ 9CDC018101

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
17000	9CDC018101	PCB BALANCE AS	ACD-4250U
B006	9CD6559406	PCB BALANCE	330×247×T1.6 1V0
CN401	97188824U0	CONN AS	3P 150MM SHIELD
VR405	5V2503668W	VR SLIDE	S10411CJ-50KW

■ 9CDC018201

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
18000	9CDC018201	PCB TUNER LED AS	ACD-4250U
B007	9CD6559407	PCB TUNER LED	330×247×T1.6 1V0
CN905	9CD88922U0	CONN AS	#26 3P 300MM BOARD IN
LED01 ~LED05	DSLV31DC3-	LED	DSL-31DC3

■ 9CDC018301

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
19000	9CDC18301	PCB CD LED AS	ACD-4250U
B008	9CD6559408	PCB CD LED	330×247×T1.6 1V0
CN907	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
LED06 ~LED09	DSLV31DC3-	LED	DSL-31DC3

■ 9CDC018400

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
19500	9CDC18400	PCB DIRECION LED AS	ACD-4250U
B010	9CD6559410	PCB DIRECTION	330×247×T1.6 1V0
CN602	9CD88921U0	CONN AS	#26 3P 350MM BOARD IN
LED11 LED012	DSLT35MG3F	DIODE (LED)	SLT-35MG3F

■ 9CDC018501

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
2000	9CDC018501	PCB VR LED AS	ACD-4250U
B011	9CD6559411	PCB VR LED	330×247×T1.6 1V0
CN504	9CD88920U0	CONN AS	#26 2P 100MM BOARD IN
LED10	DKLR114E--	LED	KLR114E (RED)

■ 9CDC018601

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
21000	9CDC018601	PCB CONTROL AS	ACD-4250U
B001	9CD6559401	PCB CONTROL	330×247×T1.6 1V0
CN801	9CD88913U0	CONN AS	#26 3P 300MM BOARD IN
CN802	9CD88914U0	CONN AS	#26 12P 250MM BOARD IN
CN803	9CD88915U0	CONN AS	#26 5P 350MM BOARD IN

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
CN804	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
CN805	9CD88916U0	CONN AS	#26 2P 200MM BOARD IN
CN806	9CD88917U0	CONN AS	#26 2P 250MM BOARD IN
CN807	9CD88918U0	CONN AS	#26 2P 150MM BOARD IN
CW811 ~CW815	9CD6233000	CONNECTOR WAFER	53064-0810 (8P)
CW816	9CD6233200	CONNECTOR WAFER	53064-0510 (5P)
C001B	CEYF1A221V	C ELECTRO	10V 220MF
C802 C803	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C805 C806	CCXF1H102J	C CERA	HIKF 50V 1000PF J
C807 C808	CCYB1H101K	C CERA	HIKB 50V 100PF K
C809	CEXE1H109A	C ELECTRO	50V 1MF RS
C810	CCXF1H103Z	C CERA	HIKF 50V 0.01MF Z
C811 C812	CEXE1A470A	C ELECTRO	10V 47MF RS
C813 C814	CXCH1H220J	C CERA	CH 50V 22PF J
C815	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M
C819 C820	CCXF1H102J	C CERA	HIKF 50V 1000PF J
C824 ~C827	CCKF1E223Z	C CERA	HIKF 25V 0.022MF M (26MM)
C828	CEXE1A101A	C ELECTRO	10V 100MF RS
C831	CEXE1A221A	C ELECTRO	10V 220MF
D801 D802	DKSS133---	DIODE	1SS133
D803 ~D805	DKN4148---	DIODE	KN4148
D806 D811 D814 D815 D816 D817 D818	DKSS133---	DIODE	1SS133
IC000	IKIA 70299-	IC RESET	KIA70299
IC801	1LC7230334	IC	LC 7230-8334
JW240 ~JW261	W581GY1005	WIRE JUMPER	AWG22 1/0.65 SN 10 AUTO
Q801 Q802	TZTC1815GR	TR	KTC1815-GR
Q803	TZTC1815Y-	TR	KTC1815-Y
Q804	TZTA1015Y-	TR	KTA1015-Y
Q805	TKTK117BL-	FET	KTK117-BL
R801	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
R802	RD-AZ472JK	R CARBON FILM	1/6 4.7K OHM J
R803	RD-AZ100JK	R CARBON FILM	1/6 10 OHM J
R804	RD-AZ222JK	R CARBON FILM	1/6 2.2K OHM J
R805	RD-AZ822JK	R CARBON FILM	1/6 8.2K OHM J
R806	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R807	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R808	RD-AZ220JK	R CARBON FILM	1/6 22 OHM J
R809	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R810	RD-AZ562JK	R CARBON FILM	1/6 5.6K OHM J
R811	RD-AZ183JK	R CARBON FILM	1/6 18K OHM J
R812	RD-AZ473JK	R CARBON FILM	1/6 47K OHM J
R813 ~R815	RD-AZ333JK	R CARBON FILM	1/6 33K OHM J
R816 ~R819	RD-4Z103JK	R CARBON FILM	1/4 10K OHM J
R820	RD-AZ153JK	R CARBON FILM	1/6 15K OHM J
R821	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
R822	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R824	RD-AZ103JK	R CARBON FILM	1/6 10K OHM J
R825	RD-AZ332JK	R CARBON FILM	1/6 3.3K OHM J
XT801	5XA4R5000F	CRYSTAL QUARTZ	HC-18/U 4.500000 MHz 50 PPM

■ 9CDC018701

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
22000	9CDC018701	PCB CD CONTROL AS	ACS-4250U
B002	9CD6559502	PCB CD CONTROL	247×122×T1.6 1V0
CN707 CN708	9CD88927U0	CONN AS	#26 10P 200MM
CN709	9CD88926U0	CONN AS	#26 5P 200MM
LCD02	DLE0620AP-	LCD CD	LE-0620AP
SW701 ~SW708	5S50101276	SW TACT	KHM-MA-902 (1C-1P)

■ 9CDC018801

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
23000	9CDC018801	PCB JACK AS	ACD-4250U
B001	9CD6559501	PCB JACK	247×122×T1.6 1V0
CN503	9CD88928U0	CONN AS	#22 4P 250MM BOARD IN
CN711	97188851U0	CONN AS	AWG26 3P 250MM SHIELD
J502	9716315800	JACK RCA	S-437P-02

■ 9CDC018901

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
24000	9CDC018901	PCB CD LEAF SW AS	ACD-4250U
B003	9CD6559503	PCB CD LEAF SW	247×122×T1.6 1V0
CN704	9CD88619U0	CONN AS	2P UL 1007 AWG26 150MM
S701	5S70102214	SW MICRO	KMA-1214 P2 1C-2P

■ 9CDC007800

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
33000	9CDM007800	SPEAKER AS	ACD-4250
CD001	97690000--	CORD SPEAKER	1 RCA 180CM BK
CD002	97690000--	CORD SPEAKER	1 RCA 180CM BK
SP001	9718510500	SPEAKER WOOFER	5″ 4 OHM 5W
SP002	9718510500	SPEAKER WOOFER	5″ 4 OHM 5W
SP003	9718504510	SPEAKER PIEZO	PI20
SP004	9718504510	SPEAKER PIEZO	PI20

■ 9CDM008001

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
34000	9CDM008001	DECK AS	ACD-4250U
CN601	9CD88929U0	CONN AS	#26 10P 350MM
CN603	9CD88616U0	CONN AS	3P AWG26 UL1007 300M/M
CN604	97D88588U0	CONN AS	#2547 2P SHIELD 3P
CN605	9CD88714U0	CONN AS	6P 350MM SHIELD
SW000	5SD0101306	SW LEAF	LSA-1120Y 1C-1P
00010	9736007100	DECK MECHANISM	TN-521ZSW-244

■ 7CDM008100

LOC	PART-CODE	PART-NAME	PART-DESC VENDOR-CODE/DESC
35000	9CDM008100	REMOCON AS	ARM-1400
BT001	47P7500001	BATTERY	AAM 1.5V
B1000	9766560300	PCB REMOCON	174×139×T1.6
C001	CEXE1C100A	C ELECTRO	16V 10MF RS 5×11 TAPING
C002	CMXM1H683J	C MYLAR	50V 0.068 MF J
C005B	CEYE1C100A	C ELECTRO	16V 10MF
D001	DSLR34UR5–	LED	SLR-34UR5
D002	DEL1L1----	LED	EL-1L1
IC001	1BU5854F--	IC TX	BU5854F
JW001	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN 5 AUTO
JW002	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN 5 AUTO
JW003	W581GY5095	WIRE JUMPER	AWG22 1/0.65 SN 5 AUTO
Q001	TZTC3198GR	TR	KTC3198GR (AUTO)
Q002	TZTC3198GR	TR	KTC3198GR (AUTO)
RC001	97P0A00010	RESONATOR CERA	CSB-455EB
R001	RD-AZ101JK	R CARBON FILM	1/6 100 OHM J
R002	RD-AZ109JK	R CARBON FILM	1/6 1 OHM J
R003	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J
R004	RD-AZ102JK	R CARBON FILM	1/6 1K OHM J

ACD-4250 SERIES OPTION PARTS LIST

• 4250: AUTO REVERSE SPK, ROUND • 4270: AUTO REVERSE SPK • 4260: AUTO STOP SPK, ROUND • 4280: AUTO STOP SPK • BAND 0: 2 BAND 1: SW 4 BAND 2: LW 3 BAND

		ACD-4250	MODEL	4250V	4250U	4250U-AVS	4250	4250Z-BAT	4260B-PRCS	4282F	4262F	4262Z	4261M	REMARK
PCB	LOCATION	ITEM	DESCRIPTION BAND POWER DECK	FM/AM 220V 50Hz A/REVERSE	← 120V 60Hz ←	← ← ←	← 110/200V ←	← 220V 50Hz ←	← 110/220V A/STOP	FM/MW/LW 230V ←	← ← ←	← 220V ←	FM/MW/SW 110/220V ←	
MAIN PCB	C008	C-CERAMIC	CH 50V	15pF	←	←	←	←	←	56pF	←	15pF	←	FTZ MODIFY
	C141	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C142	C-CERAMIC	50V CH 30pF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C143/C144	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C145	C-CERAMIC	CH 50V 100pF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C146	C-STYROL	50V 200pF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C147	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	0	0	0	X	LW BAND
	C171/C173/C174	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	C175	C-CERAMIC	CH 50V 5pF	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	C176	C-STYROL	50V 2200pF	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	C177	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	C181/C183/C184	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	C185	C-CERAMIC	CH 50V 15pF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	C186	C-STYROL	50V 1200pF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	C187	C-CERAMIC	HIKV 50V 0.022μF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	C191	C-CERAMIC	CH 50V 20pF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	C192	C-CERAMIC	CH 50V 30pF	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	D141/142	DIODE	1SV 149	X	X	X	X	X	X	0	0	0	X	LW BAND
	D143	DIODE	1N 4148	X	X	X	X	X	X	0	0	0	X	LW BAND
	D171/D172 D181/D182	DIODE	1SV 149	X	X	X	X	X	X	X	X	X	0	SW BAND
	D173, D183	DIODE	1N 4148	X	X	X	X	X	X	X	X	X	0	SW BAND
	FB000	BEAD CORE	BF03, 3.5×1.3×3	X	X	X	X	X	X	0	0	X	X	FTZ MODIFY
	L101	AM ANT ASS'Y	MW/MW+LW	5LA0000566	←	←	←	←	←	5LA0000567	←	←	5LA0000566	LW BAND
	L141	LW OSC COIL	7×7 CAN TYPE 5L0451K652	X	X	X	X	X	X	0	0	0	X	LW BAND
	L171	SW2 ANT COIL	7×7 CNA TYPE 5LA0000373	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	L172	SW2 OSC COIL	5107ACL352	X	X	X	X	X	X	X	X	X	0	SW2 BAND
	L181	SW1 ANT COIL	7×7 CAN TYPE 5LA0000372	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	L182	SW1 OSC COIL	7×7 CNA TYPE 5L0000K816	X	X	X	X	X	X	X	X	X	0	SW1 BAND

ACD-4250			MODEL	4250V	4250U	4250U-AVS	4250	4250Z-BAT	4260B-PRCS	4282F	4262F	4262Z	4261M	REMARK
PCB	LOCATION	ITEM	DESCRIPTION BAND POWER DECK	FM/AM 220V 50Hz A/REVERSE	← 120V 60Hz ←	← ← ←	← 110/200V ←	← 220V 50Hz ←	← 110/220V A/STOP	FM/MW/LW 230V ←	← ← ←	← 220V ←	FM/MW/SW 110/220V ←	
	L191	CHOKE COIL	1.5uH 5L0000K829	X	X	X	X	X	X	X	X	X	0	SW BAND
	Q141	TR	C1923Y	X	X	X	X	X	X	0	0	0	X	LW BAND
	Q142	TR	C2878B	X	X	X	X	X	X	0	0	0	X	LW BAND
	Q143	TR	A1015Y	X	X	X	X	X	X	0	0	0	X	LW BAND
	Q144	TR	C1815Y	X	X	X	X	X	X	0	0	0	X	LW BAND
	Q171, Q181	TR	C1923Y	X	X	X	X	X	X	X	X	X	0	SW BAND
	Q172, Q182	TR	C2878B	X	X	X	X	X	X	X	X	X	0	SW BAND
	Q173, Q183	TR	A1015Y	X	X	X	X	X	X	X	X	X	0	SW BAND
	Q174, Q184	TR	C1815Y	X	X	X	X	X	X	X	X	X	0	SW BAND
	R000	R-CARBON FILM	–/16W 3.3KΩ	X	X	X	X	X	X	0	0	X	X	FTZ MODIFY
	R141, R144	R-CARBON FILM	1/4W 100KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R142	R-CARBON FILM	1/16W 100KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R143	R-CARBON FILM	1/4W 220KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R145	R-CARBON FILM	1/4W 1KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R146	R-CARBON FILM	1/16W 4.7KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R147, R149	R-CARBON FILM	1/4W 8.2KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R148	R-CARBON FILM	1/16W 8.2KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R150	R-CARBON FILM	1/16W 68KΩ	X	X	X	X	X	X	0	0	0	X	LW BAND
	R181, D184 D171, D174	R-CARBON FILM	1/4W 100KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R172, R182	R-CARBON FILM	1/16W 100KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R173, R183	R-CARBON FILM	1/4W 220KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R175, R185	R-CARBON FILM	1/16W 1KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R176, R186	R-CARBON FILM	1/16W 4.7KΩ	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	R187, R189 R177, R179	R-CARBON FILM	1/4W 8.2KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R178, R188		1/16W 8.2KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	R180, R190		1/16W 68KΩ	X	X	X	X	X	X	X	X	X	0	SW BAND
	TC141	TRIMMER	φ5 20pF	X	X	X	X	X	X	0	0	0	X	LW BAND
	T181	TRIMMER	φ5 20pF	X	X	X	X	X	X	X	X	X	0	SW1 BAND
	CW602	CONN WAFER	3P 2m/m 9CD8892100	0	0	0	0	0	X	X	X	X	X	DECK A/REV.
	CW603	CONN WAFER	3P 2.5m/m 9CD8861600	0	0	0	0	0	X	X	X	X	X	DECK A/REV.

		ACD-4250	MODEL	4250V	4250U	4250U-AVS	4250	4250Z-BAT	4260B-PRCS	4282F	4262F	4262Z	4261M	REMARK
PCB	LOCATION	ITEM	DESCRIPTION BAND POWER DECK	FM/AM 220V 50Hz A/REVERSE	← 120V 60Hz ←	← ← ←	← 110/200V ←	← 220V 50Hz ←	← 110/220V A/STOP	FM/MW/LW 230V ←	← ← ←	← 220V ←	FM/MW/SW 110/220V ←	
POWER PCB	F901	FUSE	250V 0.25A	X	X	X	0.25A KS	X	0.25A KS	X	X	X	0.25A KS	
	F902	FUSE	250V 0.4A	X	X	X	0.4A KS	X	0.4A KS	X	X	X	0.4A KS	
	F903	FUSE	250V 2.5A	T2.5A SEMKO	2.5A UL/CSA	←	X	2.5A VDE/SEMKO	X	T2.5A VDE/SEMKO	←	←	X	
	FC901~FC904	FUSE CLIP	FC-5N	X	X	X	0	X	0	X	X	X	0	
	F905~FC906	FUSE CLIP	FC-5N	0	0	0	X	0	X	0	0	0	X	
	J901	AC SOCKET	HSC-1466/1463	HSC-1466	HSC-1463	←	HSC-1466	←	←	←	←	←	←	
	JW500	JUMP WIRE	10m/m	X	X	X	0	X	0	X	X	X	0	
	PT901	POWER TRANS	EI=57m/m	5TPV05700V	5TP105700U	←	5TPK0570KS	5TPV05700V	5TPK0570KS	5TP805700F	←	5TPV05700V	5TPK0570KS	
	SW901	VOLTAGE SELE SW SLIDE	1C-1P 00120353	X	X	X	0	X	0	X	X	X	0	DUAL VOLTAGE
CONT-ROL PCB	D810	DIODE	1SS133	X	X	X	0	X	0	X	X	X	X	COLON
	D812	DIODE	1SS133	X	X	X	X	X	X	X	X	X	0	SW
	D813	DIODE	1SS133	X	X	X	X	X	X	0	0	0	X	LW
	D814	DIODE	1SS133	0	X	X	0	X	X	0	0	0	X	B1
	D817	DIODE	1SS133	0	X	X	X	X	X	0	0	0	X	B2
	D818	DIODE	1SS133	0	X	X	X	X	X	0	0	0	X	B0
	CN801	CONN ASS'Y	3P 200m/m	9CD8891300	←	←	←	←	←	←	←	←	9748867100	SW MODIFY
DIRE-CTION PCB	LED11, LED12	DIRECTION LED	SLT-35uG 3F	0	0	0	0	0	X	X	X	X	X	DECK A/REV.
	CN602	CONN ASS'Y	9CD8892100 3P 350m/m	0	0	0	0	0	X	X	X	X	X	DECK A/REV.
CD PCB	FB701~FB704	BEAD CORE	2BF03, RH 3.5×5×1.5	X	0	X	X	X	X	X	X	X	X	FCC, JW015 R786, 787
	I702F~L704F	COIL INDUCTOR	170uH	X	0	X	X	X	X	X	X	X	X	FCC, JW015 R786, 787
	R779	R-FUSABLE R-METAL OXID	1/W 4.7Ω 1W 4.7Ω	1W 4.7Ω METAL	1/2W 4.7Ω FUSABLE METAL	1W 4.7Ω	←	←	←	←	←	←	←	FUL MODIFY
	R700/JW012	JUMP-R FUSABLE	5m/m 1/4W 100HM	JUMP	FUSABLE 1/4W 10Ω	JUMP	←	←	←	←	←	←	←	UL MODIFY
DECK	CW603	CONN ASS'Y	3P 9CD8861600	0	0	0	0	0	X	X	X	X	X	DECK A/REV.
PACI-	CD003	AC CORD	KD/CP2/EP2	KKS-15. CP2 4716503700	SPT2 EP2 9CD69503CS	←	97169503CS	KP-560 9716905700	KKS-15, CP2 4716503700	4716503400 4716503700	←	KKS-15, CP2 4716503700	KKS-15, CP2 4716503700	
	AD901	ADAPTER	15A 300V	X	X	X	KSC8305	X	KA11	X	X	X	KA11	DUAL VOLTAGE7
	MIC01	MIC	9CD8700820 FM-309 (SDM-702G)	X	X	X	X	X	X	0	0	X	X	